

NT90TP-N-C-E-AC220V-C-B FORWARD
660-073NFBS9-01
BS-901A-24VDC
BS-901AS 24V
BS901AS12VDC
BS-901AS-12VDC
BS-901AS-12VDC (заказ 3 дня)
BS-901AS-12VDC /BESTAR/ моq>195
BS-901AS-12VDC PBF
BS-901AS-12VDC, BESTAR: Реле электромеханическое, Укат 12 В, DC, Иком 30А, U 28 В
BS-901AS-12VDC, Реле
BS-901AS-24VDC
BS-901AS-24VDC PBF
BS-901AS-48VDC
BS-901CS 24V
BS901CS12VDC
BS-901CS-12VDC
BS-901CS-12VDC (заказ 3 дня)
BS-901CS-12VDC PBF
BS-901CS-12VDC, BESTAR: Реле электромеханическое силовое R_WJ115-1C
BS-901CS-24VDC
BS-901CS-24VDC PBF
DBS 9010 K
DBS 9012 K
DBS9010
DLCBS-9-01
GBS-9010F
GBS-9010FG
GBS-9010G
HF105F-1
HF105F1/009DT1HSF
HF105F1/012D1HS
HF105F-1/012D6-1ZST
HF105F1/012DT-1HST, HONGFA RELAY: Реле электромагнитное
HF105F-1/012DT-1HSTF
HF105F-1/012DT-1HSTF /HONGFA RELAY/
HF105F-1/012DT-1HSTF(335)
HF105F1/012DT-1ZST, HONGFA RELAY: Реле электромагнитное
HF105F-1/012DT-1ZSTF
HF105F-1/024D-1HS
HF105F-1/024D-1HS /HONGFA RELAY/
HF105F-1/024D6-1ZST
HF105F-1/024DT-1HSTF(136)
HF105F-1/024DT-1HSTF(136)(310)
HF105F1/024DT1ZS610
HF105F1/120AT1ZSTF(257)
HF105F1/208A1ZSTF(257)
HF105F-1/220A-1HTF(136)
HF105F1/230AT1ZS610
HF105F-1_15

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HF105F-1005A-1D
HF105F-1005A-1DS
HF105F-1005A-1DST
HF105F-1005A-1DT
HF105F-1005A-1H
HF105F-1005A-1HS
HF105F-1005A-1HST
HF105F-1005A-1HT
HF105F-1005A-1Z
HF105F-1005A-1ZS
HF105F-1005A-1ZST
HF105F-1005A-1ZT
HF105F-1005D-1D
HF105F-1005D-1DS
HF105F-1005D-1DST
HF105F-1005D-1DT
HF105F-1005D-1H
HF105F-1005D-1HS
HF105F-1005D-1HST
HF105F-1005D-1HT
HF105F-1005D-1Z
HF105F-1005D-1ZS
HF105F-1005D-1ZST
HF105F-1005D-1ZT
HF105F-1012A-1D
HF105F-1012A-1DS
HF105F-1012A-1DST
HF105F-1012A-1DT
HF105F-1012A-1H
HF105F-1012A-1HS
HF105F-1012A-1HST
HF105F-1012A-1HT
HF105F-1012A-1Z
HF105F-1012A-1ZS
HF105F-1012A-1ZST
HF105F-1012A-1ZT
HF105F-1012D-1D
HF105F-1012D-1DS
HF105F-1012D-1DST
HF105F-1012D-1DT
HF105F-1012D-1H
HF105F-1012D-1HS
HF105F-1012D-1HST
HF105F-1012D-1HT
HF105F-1012D-1Z
HF105F-1012D-1ZS
HF105F-1012D-1ZST
HF105F-1012D-1ZT
HF105F-1018A-1D
HF105F-1018A-1DS

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HF105F-1018A-1DST
HF105F-1018A-1DT
HF105F-1018A-1H
HF105F-1018A-1HS
HF105F-1018A-1HST
HF105F-1018A-1HT
HF105F-1018A-1Z
HF105F-1018A-1ZS
HF105F-1018A-1ZST
HF105F-1018A-1ZT
HF105F-1018A6-1DSTF
HF105F-1018A6-1HSTF
HF105F-1018A6-1ZSTF
HF105F-1018AT-1DSTF
HF105F-1018AT-1HSTF
HF105F-1018AT-1ZSTF
HF105F-1018D-1D
HF105F-1018D-1DS
HF105F-1018D-1DST
HF105F-1018D-1DT
HF105F-1018D-1H
HF105F-1018D-1HS
HF105F-1018D-1HST
HF105F-1018D-1HT
HF105F-1018D-1Z
HF105F-1018D-1ZS
HF105F-1018D-1ZST
HF105F-1018D-1ZT
HF105F-1018D6-1DSTF
HF105F-1018D6-1HSTF
HF105F-1018D6-1ZSTF
HF105F-1018DT-1DSTF
HF105F-1018DT-1HSTF
HF105F-1018DT-1ZSTF
HF105F-1110A-1D
HF105F-1110A-1DS
HF105F-1110A-1DST
HF105F-1110A-1DT
HF105F-1110A-1H
HF105F-1110A-1HS
HF105F-1110A-1HST
HF105F-1110A-1HT
HF105F-1110A-1Z
HF105F-1110A-1ZS
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HF105F-1110A-1ZT
HF105F-1110D-1D
HF105F-1110D-1DS
HF105F-1110D-1DST
HF105F-1110D-1DT

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HF105F-1110D-1H
HF105F-1110D-1HS
HF105F-1110D-1HST
HF105F-1110D-1HT
HF105F-1110D-1Z
HF105F-1110D-1ZS
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HF105F-1L005A-1Z
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HF105F-1L005A-1ZST
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HF105F-1L005D-1DST
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HF105F-1L005D-1HS

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HF105F-1L005D-1HST
HF105F-1L005D-1HT
HF105F-1L005D-1Z
HF105F-1L005D-1ZS
HF105F-1L005D-1ZST
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HF105F-1L012D-1ZST
HF105F-1L012D-1ZT
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HF105F-1L018D-1H
HF105F-1L018D-1HS
HF105F-1L018D-1HST
HF105F-1L018D-1HT

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HF105F-1L018D-1Z
HF105F-1L018D-1ZS
HF105F-1L018D-1ZST
HF105F-1L018D-1ZT
HF105F-1L110A-1D
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HF105F-1L110A-1HS
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HF105F-1L110D-1ZT
HF105F-1L277A-1D
HF105F-1L277A-1DS
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HF105F-1L277A-1H
HF105F-1L277A-1HS
HF105F-1L277A-1HST
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HF105F-1L277A-1Z
HF105F-1L277A-1ZS
HF105F-1L277A-1ZST
HF105F-1L277A-1ZT
HF105F-1L277D-1D
HF105F-1L277D-1DS
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HF105F-1L277D-1DT
HF105F-1L277D-1H
HF105F-1L277D-1HS
HF105F-1L277D-1HST
HF105F-1L277D-1HT
HF105F-1L277D-1Z
HF105F-1L277D-1ZS

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HF105F-1L277D-1ZST
HF105F-1L277D-1ZT
HF105F-2
HF105F-2/005A-1D
HF105F-2/005A-1DS
HF105F-2/005A-1DST
HF105F-2/005A-1DSTF
HF105F-2/005A-1DT
HF105F-2/005A-1DTF
HF105F-2/005A-1H
HF105F-2/005A-1HS
HF105F-2/005A-1HST
HF105F-2/005A-1HSTF
HF105F-2/005A-1HT
HF105F-2/005A-1HTF
HF105F-2/005A-1Z
HF105F-2/005A-1ZS
HF105F-2/005A-1ZST
HF105F-2/005A-1ZSTF
HF105F-2/005A-1ZT
HF105F-2/005A-1ZTF
HF105F-2/005D-1D
HF105F-2/005D-1DS
HF105F-2/005D-1DST
HF105F-2/005D-1DSTF
HF105F-2/005D-1DT
HF105F-2/005D-1DTF
HF105F-2/005D-1H
HF105F-2/005D-1HS
HF105F-2/005D-1HST
HF105F-2/005D-1HSTF
HF105F-2/005D-1HT
HF105F-2/005D-1HTF
HF105F-2/005D-1Z
HF105F-2/005D-1ZS
HF105F-2/005D-1ZST
HF105F-2/005D-1ZSTF
HF105F-2/005D-1ZT
HF105F-2/005D-1ZTF
HF105F-2/012A-1D
HF105F-2/012A-1DS
HF105F-2/012A-1DST
HF105F-2/012A-1DSTF
HF105F-2/012A-1DT
HF105F-2/012A-1DTF
HF105F-2/012A-1H
HF105F-2/012A-1HS
HF105F-2/012A-1HST
HF105F-2/012A-1HSTF
HF105F-2/012A-1HT

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HF105F-2/012A-1HTF
HF105F-2/012A-1Z
HF105F-2/012A-1ZS
HF105F-2/012A-1ZST
HF105F-2/012A-1ZSTF
HF105F-2/012A-1ZT
HF105F-2/012A-1ZTF
HF105F-2/012D-1D
HF105F-2/012D-1DS
HF105F-2/012D-1DST
HF105F-2/012D-1DSTF
HF105F-2/012D-1DT
HF105F-2/012D-1DTF
HF105F-2/012D-1H
HF105F-2/012D-1HS
HF105F-2/012D-1HST
HF105F-2/012D-1HSTF
HF105F-2/012D-1HT
HF105F-2/012D-1HTF
HF105F-2/012D-1Z
HF105F-2/012D-1ZS
HF105F-2/012D-1ZST
HF105F-2/012D-1ZSTF
HF105F-2/012D-1ZT
HF105F-2/012D-1ZTF
HF105F-2/018A-1D
HF105F-2/018A-1DS
HF105F-2/018A-1DST
HF105F-2/018A-1DSTF
HF105F-2/018A-1DT
HF105F-2/018A-1DTF
HF105F-2/018A-1H
HF105F-2/018A-1HS
HF105F-2/018A-1HST
HF105F-2/018A-1HSTF
HF105F-2/018A-1HT
HF105F-2/018A-1HTF
HF105F-2/018A-1Z
HF105F-2/018A-1ZS
HF105F-2/018A-1ZST
HF105F-2/018A-1ZSTF
HF105F-2/018A-1ZT
HF105F-2/018A-1ZTF
HF105F-2/018D-1D
HF105F-2/018D-1DS
HF105F-2/018D-1DST
HF105F-2/018D-1DSTF
HF105F-2/018D-1DT
HF105F-2/018D-1DTF
HF105F-2/018D-1H

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HF105F-2/018D-1HS
HF105F-2/018D-1HST
HF105F-2/018D-1HSTF
HF105F-2/018D-1HT
HF105F-2/018D-1HTF
HF105F-2/018D-1Z
HF105F-2/018D-1ZS
HF105F-2/018D-1ZST
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HF105F-2/018D-1ZT
HF105F-2/018D-1ZTF
HF105F-2/110A-1D
HF105F-2/110A-1DS
HF105F-2/110A-1DST
HF105F-2/110A-1DSTF
HF105F-2/110A-1DT
HF105F-2/110A-1DTF
HF105F-2/110A-1H
HF105F-2/110A-1HS
HF105F-2/110A-1HST
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HF105F-2/110A-1HT
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HF105F-2/110D-1ZS
HF105F-2/110D-1ZST
HF105F-2/110D-1ZSTF
HF105F-2/110D-1ZT
HF105F-2/110D-1ZTF
HF105F-2/277A-1D
HF105F-2/277A-1DS
HF105F-2/277A-1DST

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HF105F-2/277A-1DSTF
HF105F-2/277A-1DT
HF105F-2/277A-1DTF
HF105F-2/277A-1H
HF105F-2/277A-1HS
HF105F-2/277A-1HST
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HF105F-2/277A-1HT
HF105F-2/277A-1HTF
HF105F-2/277A-1Z
HF105F-2/277A-1ZS
HF105F-2/277A-1ZST
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HF105F-2/277A-1ZT
HF105F-2/277A-1ZTF
HF105F-2/277D-1D
HF105F-2/277D-1DS
HF105F-2/277D-1DST
HF105F-2/277D-1DSTF
HF105F-2/277D-1DT
HF105F-2/277D-1DTF
HF105F-2/277D-1H
HF105F-2/277D-1HS
HF105F-2/277D-1HST
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HF105F-2/277D-1HT
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HF105F-2_15
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HF105F-2L/005A-1Z
HF105F-2L/005A-1ZS
HF105F-2L/005A-1ZST
HF105F-2L/005A-1ZSTF

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HF105F-2L/005A-1ZT
HF105F-2L/005A-1ZTF
HF105F-2L/005D-1D
HF105F-2L/005D-1DS
HF105F-2L/005D-1DST
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HF105F-2L/005D-1H
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HF105F-2L/012A-1HS
HF105F-2L/012A-1HST
HF105F-2L/012A-1HSTF
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HF105F-2L/012A-1HTF
HF105F-2L/012A-1Z
HF105F-2L/012A-1ZS
HF105F-2L/012A-1ZST
HF105F-2L/012A-1ZSTF
HF105F-2L/012A-1ZT
HF105F-2L/012A-1ZTF
HF105F-2L/012D-1D
HF105F-2L/012D-1DS
HF105F-2L/012D-1DST
HF105F-2L/012D-1DSTF
HF105F-2L/012D-1DT
HF105F-2L/012D-1DTF
HF105F-2L/012D-1H
HF105F-2L/012D-1HS
HF105F-2L/012D-1HST
HF105F-2L/012D-1HSTF
HF105F-2L/012D-1HT
HF105F-2L/012D-1HTF

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HF105F-2L/012D-1Z
HF105F-2L/012D-1ZS
HF105F-2L/012D-1ZST
HF105F-2L/012D-1ZSTF
HF105F-2L/012D-1ZT
HF105F-2L/012D-1ZTF
HF105F-2L/018A-1D
HF105F-2L/018A-1DS
HF105F-2L/018A-1DST
HF105F-2L/018A-1DSTF
HF105F-2L/018A-1DT
HF105F-2L/018A-1DTF
HF105F-2L/018A-1H
HF105F-2L/018A-1HS
HF105F-2L/018A-1HST
HF105F-2L/018A-1HSTF
HF105F-2L/018A-1HT
HF105F-2L/018A-1HTF
HF105F-2L/018A-1Z
HF105F-2L/018A-1ZS
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HF105F-2L/018A-1ZT
HF105F-2L/018A-1ZTF
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HF105F-2L/018D-1DSTF
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HF105F-2L/018D-1DTF
HF105F-2L/018D-1H
HF105F-2L/018D-1HS
HF105F-2L/018D-1HST
HF105F-2L/018D-1HSTF
HF105F-2L/018D-1HT
HF105F-2L/018D-1HTF
HF105F-2L/018D-1Z
HF105F-2L/018D-1ZS
HF105F-2L/018D-1ZST
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HF105F-2L/110A-1DT
HF105F-2L/110A-1DTF
HF105F-2L/110A-1H
HF105F-2L/110A-1HS

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HF105F-2L/110A-1HST
HF105F-2L/110A-1HSTF
HF105F-2L/110A-1HT
HF105F-2L/110A-1HTF
HF105F-2L/110A-1Z
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HF105F-2L/277D-1DT
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HF105F-2L/277D-1H
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HF105F-4/012D1ZSTF
HF105F4/024AK1ZSF(257)
HF105F-4/024D1HSTF
HF105F-4/024D1ZSTF
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HF105F-4/220A-1HS, реле 220В/30А (аналог TR91F-220VAC-SC-A)
HF105F-4/240A1HSTF
HF105F-4/240A1ZSTF
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HF105F-4110DK-1HWTXXX

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HF105F-4110DK-1HXXX
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HF105F-4L005DK-1HWXXX
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HF105F-5
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HF105F-5277DT1ZTXXX
HF105F-5277DT1ZXXXX
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HF105F-5L005DT1ZSFXXX
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HF105F-5L005DT1ZSTXXX
HF105F-5L005DT1ZSXXX

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HF105F-5L005DT1ZTFXXX
HF105F-5L005DT1ZTXXX
HF105F-5L005DT1ZXXXX
HF105F-5L012DT1DFXXX
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HF105F-5L018DT1ZTXXX

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HF105F-5L018DT1ZXXX
HF105F-5L110DT1DFXXX
HF105F-5L110DT1DSFXXX
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HF105F-5L277DT1ZTXXX
HF105F-5L277DT1ZXXX
NT90TP

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NT90TP_07
NT90TP-A
NT90TP-B
NT90TP-C
NT90TPHADDC110VC
NT90TPHADDC110VI
NT90TPHADDC110VS
NT90TPHADDC12VC
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NT90TPHADDC15VSB2
NT90TPHADDC15VSB2.2
NT90TPHADDC15VSF0
NT90TPHADDC15VSF0.6

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NT90TPHADDC15VSF0.9
NT90TPHADDC15VSF2
NT90TPHADDC15VSF2.2
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NT90TPHADDC3VSF2
NT90TPHADDC3VSF2.2
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NT90TPHADDC9VSB2.2
NT90TPHADDC9VSF0

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NT90TPHADDC9VSF0.6
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NT90TPHAEDC15VSB2.2
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NT90TPHAEDC3VSF2
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NT90TPHAEDC9VSF0.6
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NT90TPHAODC18VCF0

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NT90TPHAODC18VCF0.6
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NT90TPHAODC5VSF0.6
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NT90TPHASDC12VSF0.9
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NT90TPHASDC15VC
NT90TPHASDC15VCB0
NT90TPHASDC15VCB0.6
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NT90TPHASDC24VC
NT90TPHASDC24VI
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NT90TPHASDC3VCB0
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NT90TPHASDC6VI

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NT90TPHASDC6VS
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NT90TPHBSDC12VC
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NT90TPHBSDC12VCB0.6

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NT90TPHBSDC12VCB0.9
NT90TPHBSDC12VCB2
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NT90TPHCSDC3VCB0.6
NT90TPHCSDC3VCB0.9
NT90TPHCSDC3VCB2
NT90TPHCSDC3VCB2.2
NT90TPHCSDC3VCF0
NT90TPHCSDC3VCF0.6
NT90TPHCSDC3VCF0.9

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NT90TPHCSDC3VCF2
NT90TPHCSDC3VCF2.2
NT90TPHCSDC3VI
NT90TPHCSDC3VS
NT90TPHCSDC3VSB0
NT90TPHCSDC3VSB0.6
NT90TPHCSDC3VSB0.9
NT90TPHCSDC3VSB2
NT90TPHCSDC3VSB2.2
NT90TPHCSDC3VSF0
NT90TPHCSDC3VSF0.6
NT90TPHCSDC3VSF0.9
NT90TPHCSDC3VSF2
NT90TPHCSDC3VSF2.2
NT90TPHCSDC48VC
NT90TPHCSDC48VI
NT90TPHCSDC48VS
NT90TPHCSDC5VC
NT90TPHCSDC5VCB0
NT90TPHCSDC5VCB0.6
NT90TPHCSDC5VCB0.9
NT90TPHCSDC5VCB2
NT90TPHCSDC5VCB2.2
NT90TPHCSDC5VCF0
NT90TPHCSDC5VCF0.6
NT90TPHCSDC5VCF0.9
NT90TPHCSDC5VCF2
NT90TPHCSDC5VCF2.2
NT90TPHCSDC5VI
NT90TPHCSDC5VS
NT90TPHCSDC5VSB0
NT90TPHCSDC5VSB0.6
NT90TPHCSDC5VSB0.9
NT90TPHCSDC5VSB2
NT90TPHCSDC5VSB2.2
NT90TPHCSDC5VSF0
NT90TPHCSDC5VSF0.6
NT90TPHCSDC5VSF0.9
NT90TPHCSDC5VSF2
NT90TPHCSDC5VSF2.2
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NT90TPHCSDC6VI
NT90TPHCSDC6VS
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NT90TPHCSDC9VCB0.6
NT90TPHCSDC9VCB0.9
NT90TPHCSDC9VCB2
NT90TPHCSDC9VCB2.2
NT90TPHCSDC9VCF0

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NT90TPHCSDC9VCF0.6
NT90TPHCSDC9VCF0.9
NT90TPHCSDC9VCF2
NT90TPHCSDC9VCF2.2
NT90TPHCSDC9VI
NT90TPHCSDC9VS
NT90TPHCSDC9VSB0
NT90TPHCSDC9VSB0.6
NT90TPHCSDC9VSB0.9
NT90TPHCSDC9VSB2
NT90TPHCSDC9VSB2.2
NT90TPHCSDC9VSF0
NT90TPHCSDC9VSF0.6
NT90TPHCSDC9VSF0.9
NT90TPHCSDC9VSF2
NT90TPHCSDC9VSF2.2
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NT90TPHLADDC110VI
NT90TPHLADDC110VS
NT90TPHLADDC12VC
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NT90TPHLADDC12VS
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NT90TPHLADDC15VI
NT90TPHLADDC15VS
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NT90TPHLADDC18VI
NT90TPHLADDC18VS
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NT90TPHLADDC9VS
NT90TPHLAEDC110VC
NT90TPHLAEDC110VI
NT90TPHLAEDC110VS
NT90TPHLAEDC12VC

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NT90TPHLAEDC12VI
NT90TPHLAEDC12VS
NT90TPHLAEDC15VC
NT90TPHLAEDC15VI
NT90TPHLAEDC15VS
NT90TPHLAEDC18VC
NT90TPHLAEDC18VI
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NT90TPHLASDC48VC
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NT90TPHLASDC48VS
NT90TPHLASDC5VC
NT90TPHLASDC5VI
NT90TPHLASDC5VS

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NT90TPHLASDC6VC
NT90TPHLASDC6VI
NT90TPHLASDC6VS
NT90TPHLASDC9VC
NT90TPHLASDC9VI
NT90TPHLASDC9VS
NT90TPHLBDDC110VC
NT90TPHLBDDC110VI
NT90TPHLBDDC110VS
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NT90TPHLBDDC18VI
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NT90TPHLBDDC24VS
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NT90TPHLBEDC12VI
NT90TPHLBEDC12VS
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NT90TPHLBEDC15VI
NT90TPHLBEDC15VS
NT90TPHLBEDC18VC
NT90TPHLBEDC18VI
NT90TPHLBEDC18VS
NT90TPHLBEDC24VC
NT90TPHLBEDC24VI

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NT90TPHLBEDC24VS
NT90TPHLBEDC3VC
NT90TPHLBEDC3VI
NT90TPHLBEDC3VS
NT90TPHLBEDC48VC
NT90TPHLBEDC48VI
NT90TPHLBEDC48VS
NT90TPHLBEDC5VC
NT90TPHLBEDC5VI
NT90TPHLBEDC5VS
NT90TPHLBEDC6VC
NT90TPHLBEDC6VI
NT90TPHLBEDC6VS
NT90TPHLBEDC9VC
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NT90TPHLBEDC9VS
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NT90TPHLBSDC9VS
NT90TPHLCCDDC110VC
NT90TPHLCCDDC110VI
NT90TPHLCCDDC110VS
NT90TPHLCCDDC12VC

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NT90TPHLCDDC12VI
NT90TPHLCDDC12VS
NT90TPHLCDDC15VC
NT90TPHLCDDC15VI
NT90TPHLCDDC15VS
NT90TPHLCDDC18VC
NT90TPHLCDDC18VI
NT90TPHLCDDC18VS
NT90TPHLCDDC24VC
NT90TPHLCDDC24VI
NT90TPHLCDDC24VS
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NT90TPHLCEDC48VI
NT90TPHLCEDC48VS
NT90TPHLCEDC5VC
NT90TPHLCEDC5VI
NT90TPHLCEDC5VS

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NT90TPHLCEDC6VC
NT90TPHLCEDC6VI
NT90TPHLCEDC6VS
NT90TPHLCEDC9VC
NT90TPHLCEDC9VI
NT90TPHLCEDC9VS
NT90TPHLCSDC110VC
NT90TPHLCSDC110VI
NT90TPHLCSDC110VS
NT90TPHLCSDC12VC
NT90TPHLCSDC12VI
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NT90TPNADDC15VS
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NT90TPNADDC18VI
NT90TPNADDC18VS
NT90TPNADDC24VC
NT90TPNADDC24VI

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NT90TPNADDC24VS
NT90TPNADDC3VC
NT90TPNADDC3VI
NT90TPNADDC3VS
NT90TPNADDC48VC
NT90TPNADDC48VI
NT90TPNADDC48VS
NT90TPNADDC5VC
NT90TPNADDC5VI
NT90TPNADDC5VS
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NT90TPNADDC6VI
NT90TPNADDC6VS
NT90TPNADDC9VC
NT90TPNADDC9VI
NT90TPNADDC9VS
NT90TPNAEDC110VC
NT90TPNAEDC110VI
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NT90TPNAEDC6VI
NT90TPNAEDC6VS
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NT90TPNAEDC9VI
NT90TPNAEDC9VS
NT90TPNASDC110VC
NT90TPNASDC110VI
NT90TPNASDC110VS
NT90TPNASDC12VC

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NT90TPNASDC12VI
NT90TPNASDC12VS
NT90TPNASDC15VC
NT90TPNASDC15VI
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NT90TPNASDC18VI
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NT90TPNASDC24VI
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NT90TPNASDC3VC
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NT90TPNASDC3VS
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NT90TPNBDDC48VC
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NT90TPNBDDC48VS
NT90TPNBDDC5VC
NT90TPNBDDC5VI
NT90TPNBDDC5VS

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NT90TPNBDDC6VC
NT90TPNBDDC6VI
NT90TPNBDDC6VS
NT90TPNBDDC9VC
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NT90TPNBSDC15VS
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NT90TPNBSDC18VS
NT90TPNBSDC24VC
NT90TPNBSDC24VI

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NT90TPNBSDC24VS
NT90TPNBSDC3VC
NT90TPNBSDC3VI
NT90TPNBSDC3VS
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NT90TPNCDDC9VI
NT90TPNCDDC9VS
NT90TP-N-C-E
NT90TPNCE220CB
NT90TPNCE220CF
NT90TPNCE220CF Реле

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NT90TPNCE220CF, Реле
NT90TPNCE24CB
NT90TP-N-C-E-AC220-CB (1 группа)
NT90TP-N-C-E-AC220-CB (T92)
NT90TPNCEAC220CB(T92)
NT90TP-N-C-E-AC220V-C-B (T92)
NT90TP-N-C-E-AC220V-C-B (T92) /FORWARD/ моq>20
NT90TP-N-C-E-AC220V-C-B FORWAR
NT90TP-N-C-E-AC220V-C-B FORWARD
NT90TP-N-C-E-AC220V-C-B FORWARD Реле
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NT90TPNCEDC18VC
NT90TPNCEDC18VI
NT90TPNCEDC18VS
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NT90TP-N-C-E-DC24-CB /FORWARD/ моq>20
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NT90TPNCSDC110VS
NT90TPNCSDC12VC
NT90TPNCSDC12VI
NT90TPNCSDC12VS
NT90TPNCSDC15VC
NT90TPNCSDC15VI

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NT90TPNCSDC15VS
NT90TPNCSDC18VC
NT90TPNCSDC18VI
NT90TPNCSDC18VS
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NT90TPNCSDC48VS
NT90TPNCSDC5VC
NT90TPNCSDC5VI
NT90TPNCSDC5VS
NT90TPNCSDC6VC
NT90TPNCSDC6VI
NT90TPNCSDC6VS
NT90TPNCSDC9VC
NT90TPNCSDC9VI
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NT90TPNLADDC110VS
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NT90TPNLADDC3VI
NT90TPNLADDC3VS
NT90TPNLADDC48VC
NT90TPNLADDC48VI
NT90TPNLADDC48VS
NT90TPNLADDC5VC
NT90TPNLADDC5VI
NT90TPNLADDC5VS
NT90TPNLADDC6VC
NT90TPNLADDC6VI
NT90TPNLADDC6VS
NT90TPNLADDC9VC

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NT90TPNLADDC9VI
NT90TPNLADDC9VS
NT90TPNLAE12CB
NT90TPNLAEDC110VC
NT90TPNLAEDC110VI
NT90TPNLAEDC110VS
NT90TPNLAEDC12VC
NT90TP-N-L-A-E-DC12V-C-B-0.6
NT90TP-N-L-A-E-DC12V-C-B-0.6 /FORWARD/ moq>20
NT90TPNLAEDC12VCB06
NT90TPNLAEDC12VI
NT90TPNLAEDC12VS
NT90TPNLAEDC15VC
NT90TPNLAEDC15VI
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NT90TPNLAEDC5VC
NT90TPNLAEDC5VI
NT90TPNLAEDC5VS
NT90TPNLAEDC6VC
NT90TPNLAEDC6VI
NT90TPNLAEDC6VS
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NT90TPNLAEDC9VI
NT90TPNLAEDC9VS
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NT90TPNLASDC110VI
NT90TPNLASDC110VS
NT90TPNLASDC12VC
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NT90TPNLASDC12VI
NT90TPNLASDC12VS
NT90TPNLASDC15VC
NT90TPNLASDC15VI
NT90TPNLASDC15VS
NT90TPNLASDC18VC
NT90TPNLASDC18VI
NT90TPNLASDC18VS
NT90TPNLASDC24VC

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NT90TPNLASDC24VI
NT90TPNLASDC24VS
NT90TPNLASDC3VC
NT90TPNLASDC3VI
NT90TPNLASDC3VS
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NT90TPNLASDC5VS
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NT90TPNLBDDC3VI
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NT90TPNLBDDC48VI
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NT90TPNLBDDC5VI
NT90TPNLBDDC5VS
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NT90TPNLBDDC6VS
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NT90TPNLBDDC9VS
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NT90TPNLBEDC110VI
NT90TPNLBEDC110VS

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NT90TPNLBEDC12VC
NT90TPNLBEDC12VI
NT90TPNLBEDC12VS
NT90TPNLBEDC15VC
NT90TPNLBEDC15VI
NT90TPNLBEDC15VS
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NT90TPNLBSDC5VC
NT90TPNLBSDC5VI

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NT90TPNLBSDC5VS
NT90TPNLBSDC6VC
NT90TPNLBSDC6VI
NT90TPNLBSDC6VS
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NT90TPNLBSDC9VI
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NT90TPNLCEDC15VS
NT90TPNLCEDC18VC
NT90TPNLCEDC18VI
NT90TPNLCEDC18VS

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NT90TPNLCEDC24VC
NT90TPNLCEDC24VI
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NT90TPNLCEDC3VC
NT90TPNLCEDC3VI
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NT90TPNLCSDC9VC
NT90TPNLCSDC9VI
NT90TPNLCSDC9VS
SBS 9010 JTK
SBS 9010 TK

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SBS 9012 JTK
SBS 9012 TK
SBS9010T
SBS9012TK
Реле NT90TPNCE 1Z 30A 12V
Реле NT90TPNCE 1Z 30A 220V
Реле~220VAC 30A (2 клеммы +2клеммы) JQX-105F-4 / 220AK-1HS (HF105F-4)

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HF2110/HF2120

MINIATURE HIGH POWER RELAY

CRUS

File No.:E134517



File No.:CQC02001001955



Features

- 30A switching capability
- PCB coil terminals, ideal for heavy duty load
- 2.5kV dielectric strength (between coil and contacts)
- Unenclosed type available
- Class F insulation available
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (30.5 x 24.6 x 15.7) mm

CONTACT DATA

Contact arrangement	1A	1B	1C(NO)	1C(NC)
Contact resistance	50mΩ (at 1A 6VDC)			
Contact material	AgCdO			
Contact rating (Res. load)	30A 240VAC	15A 240VAC	20A 240VAC	10A 240VAC
	20A 30VDC	10A 30VDC	20A 30VDC	10A 30VDC
Max. switching capacity	7200VA	3600VA	4800VA	2400VA
	600W	300W	600W	300W
Max. switching voltage	277VAC / 30VDC			
Max. switching current	40A	15A	20A	10A
Mechanical endurance	1 x 10 ⁷ OPS			
Electrical endurance	1 x 10 ⁵ OPS			

COIL

Coil power 900mW

COIL DATA

at 23°C

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. Allowable Voltage VDC	Coil Resistance Ω
5	3.75	0.5	6.5	27 x (1±10%)
6	4.50	0.6	7.8	40 x (1±10%)
9	6.75	0.9	11.7	97 x (1±10%)
12	9.00	1.2	15.6	155 x (1±10%)
15	11.25	1.5	19.5	256 x (1±10%)
18	13.50	1.8	23.4	380 x (1±10%)
24	18.00	2.4	31.2	660 x (1±10%)
48	36.00	4.8	62.4	2560 x (1±10%)
70	52.50	7.0	91.0	5500 x (1±10%)
110	82.50	11.0	143.0	13450 x (1±10%)

CHARACTERISTICS

Insulation resistance	1000MΩ (at 500VDC)	
Dielectric strength	Between coil & contacts	2500VAC 1min
	Between open contacts	1500VAC 1min
Operate time (at nomi. volt.)	15ms max.	
Release time (at nomi. volt.)	10ms max.	
Ambient temperature	Class B	-55°C to 100°C
	Class F	-55°C to 125°C
Shock resistance	Functional	100m/s ² (10g)
	Destructive	1000m/s ² (100g)
Vibration resistance	10Hz to 55Hz 1mm DA	
Humidity	95% RH, 40°C	
Termination	HF2110/2111: PCB HF2120/2121: PCB & QC	
Unit weight	Approx. 35g	
Construction	Unenclosed	

Notes: 1) The data shown above are initial values.

2) Please find coil temperature curve in the characteristic curves below.



HONGFA RELAY

ISO9001、ISO/TS16949、ISO14001、OHSAS18001 CERTIFIED

2007 Rev. 2.00

SAFETY APPROVAL RATINGS

UL&CUR

Load type	Volts	1 Form A	1 Form B	1 Form C (NO)	1 Form C (NO)
General purpose	125/240VAC	30A	15A	--	15A
	277VAC	30A	30A	30A	30A
Resistive	125/240VAC	30A	15A	--	--
	30VDC	20A	10A	20A	10A
	277VAC	20A	--	--	--
	240VAC	15A	--	--	--
Ballast	125/240/277VAC	6A	3A	6A	3A
Pilot duty	125VAC	800VA	290VA	800VA	290VA
	125VAC	690VA	--	690VA	--
	125VAC	800VA	--	800VA	--
	240VAC	1152VA	768VA	1152VA	768VA
	277VAC	764VA	--	764VA	--
Motor load	125VAC	1HP	1/4HP	1HP	1/4HP
	240VAC	2HP	1HP	2HP	1HP
	125VAC	1HP	--	1HP	--
	125/277VAC	3/4HP	--	3/4HP	--
Definite purpose (LRA-loaded rotor) (FLA-full load)	120VAC	82.8LRA, 13.8FLA	--	82.8LRA, 13.8FLA	--
	125VAC	96LRA, 30FLA	33LRA, 10FLA	60LRA, 20FLA	33LRA, 10FLA
	125VAC	60LRA, 20FLA	30LRA, 12FLA	60LRA, 20FLA	30LRA, 12FLA
	125VAC	82.8LRA, 27FLA	--	82.8LRA, 27FLA	--
	240VAC	80LRA, 30FLA	33LRA, 10FLA	80LRA, 20FLA	33LRA, 10FLA
	240VAC	41.4LRA, 6.9FLA	--	41.48LRA, 6.9FLA	--
Tungsten	277VAC	60LRA, 20FLA	--	60LRA, 20FLA	--
	125VAC	15A	--	15A	--
	240VAC	5A	--	5A	3A
	120VAC	--	3A	--	--
	240VAC	--	3A	--	--

Notes: Only some typical ratings are listed above. If more details are required, please contact us.

ORDERING INFORMATION

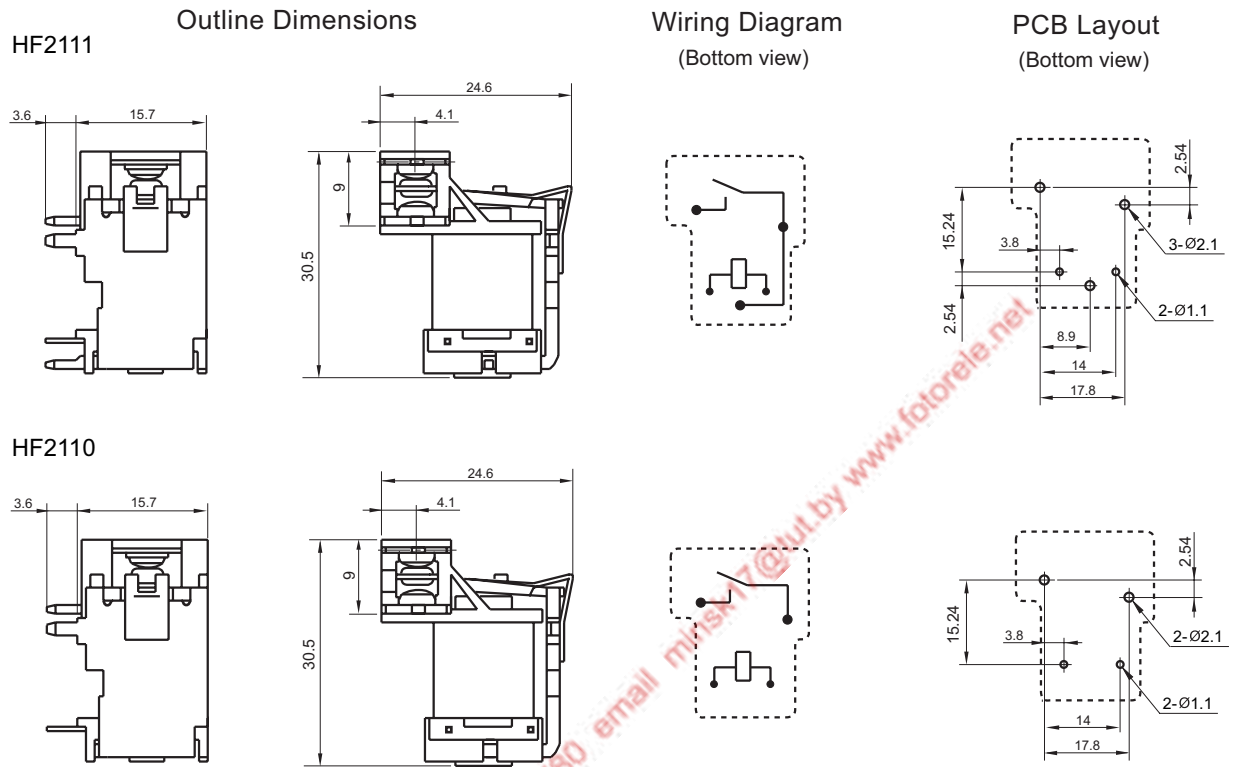
Type	HF2110 HF2120	-1A	-12D	F	(XXX)
Contact arrangement	1A: 1 Form A 1B: 1 Form B 1C: 1 Form C				
Coil voltage	5, 6, 9, 12, 15, 18, 24, 48, 70, 110VDC				
Insulation standard	F: Class F Nil: Class B				
Customer special code ¹⁾ (Only for special requirements)	e.g. (551) stands for RoHS compliant (Cadmium containing contacts) (555) stands for RoHS compliant (Cadmium-free contacts)				

Notes: 1) HF2110/HF2120 is an environmental friendly product. Please mark a special code (555) or (551) when ordering. (551) stands RoHS compliant with Cadmium contact; (555) stands for RoHS compliant with Cadmium-free contact.

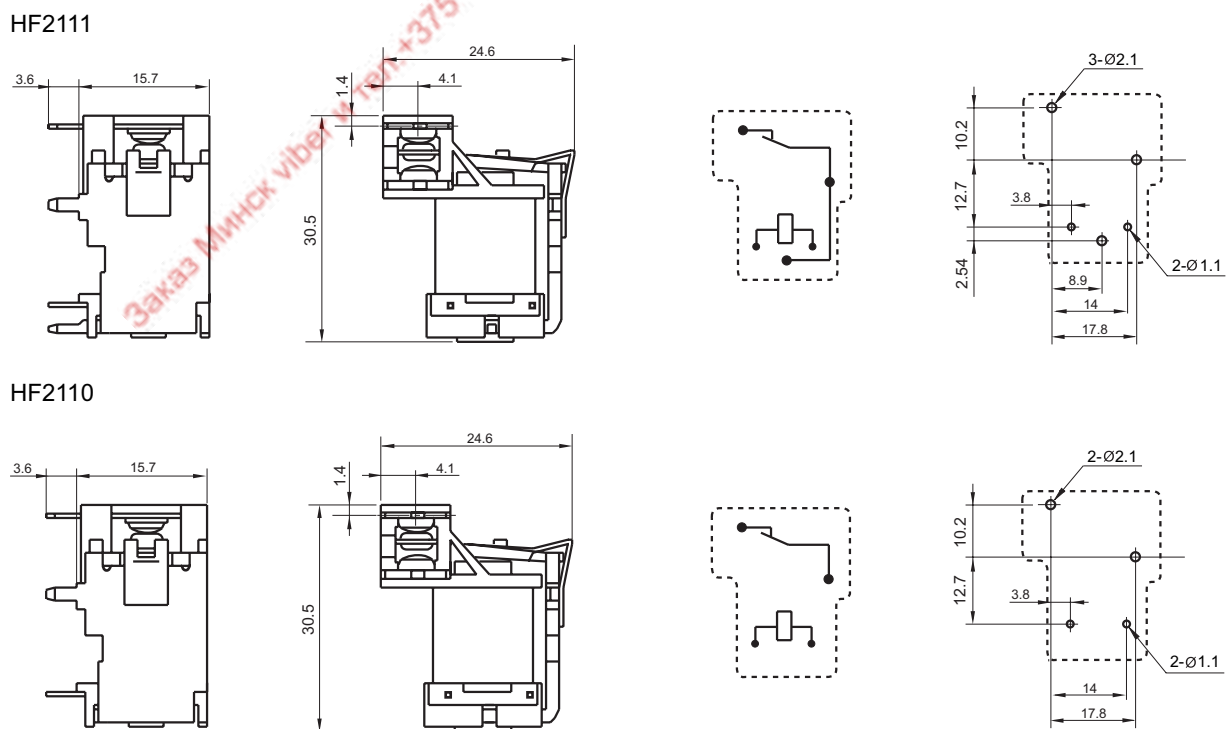
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

1 Form A



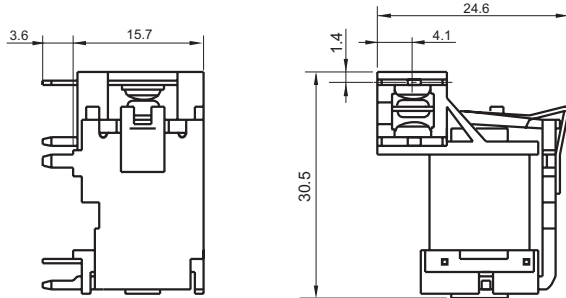
1 Form B



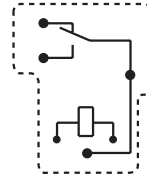
1 Form C

Outline Dimensions

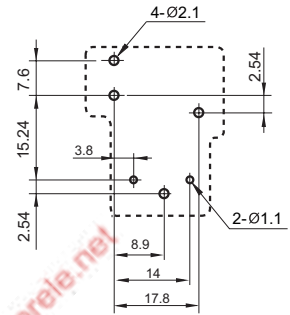
HF2111



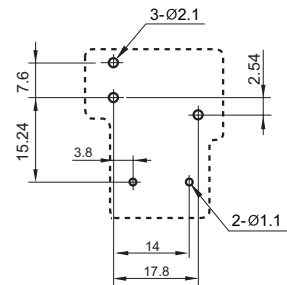
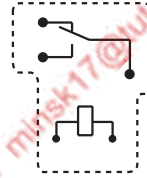
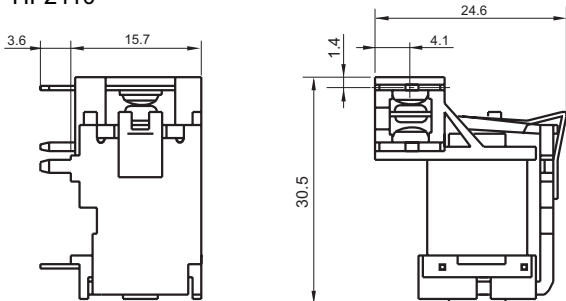
Wiring Diagram
(Bottom view)



PCB Layout
(Bottom view)

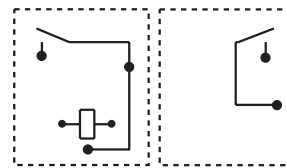
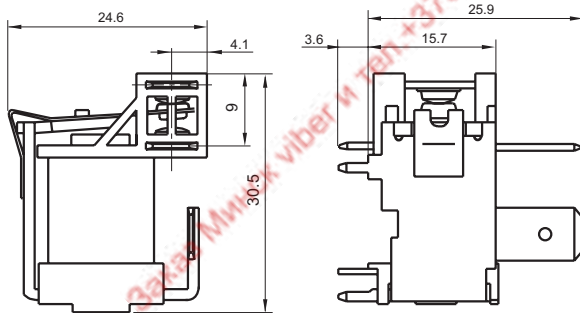


HF2110

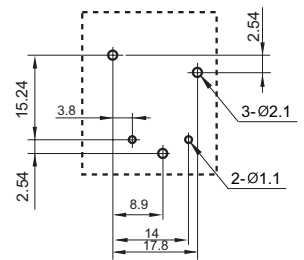


1 Form A

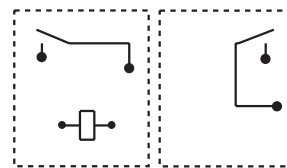
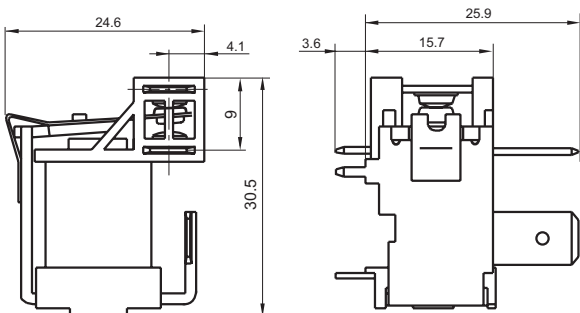
HF2121



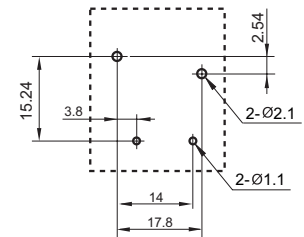
(Bottom view) (Top view)



HF2120



(Bottom view) (Top view)



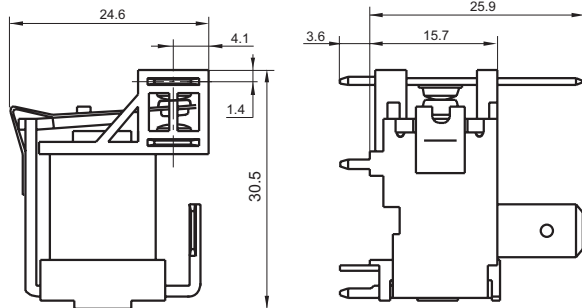
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

1 Form B

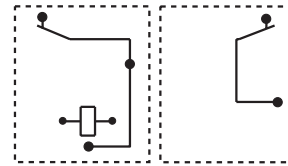
Outline Dimensions

HF2121



Wiring Diagram

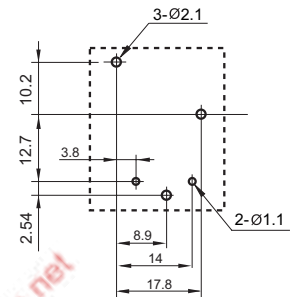
(Bottom view)



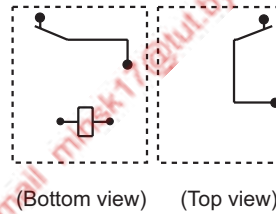
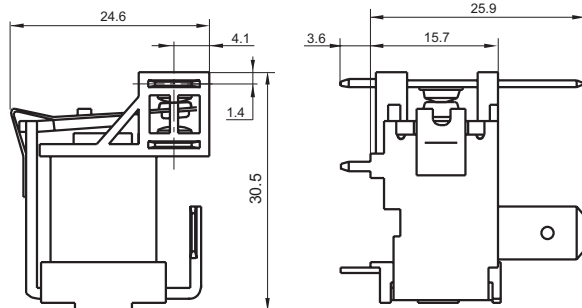
(Bottom view) (Top view)

PCB Layout

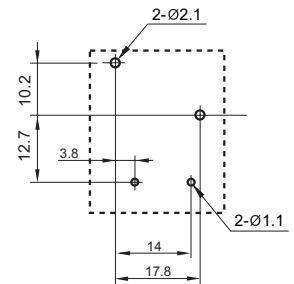
(Bottom view)



HF2120

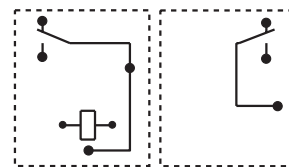
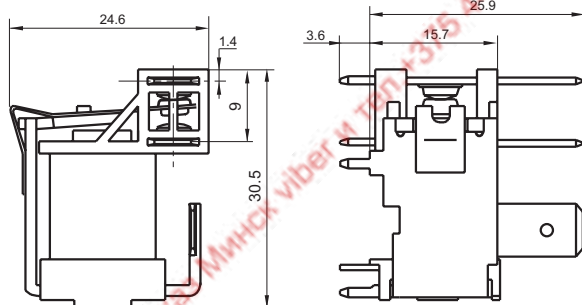


(Bottom view) (Top view)

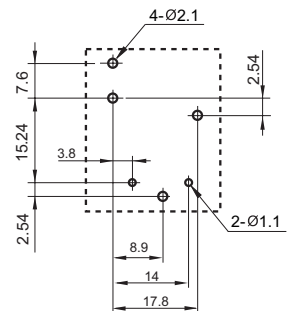


1 Form C

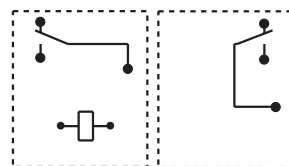
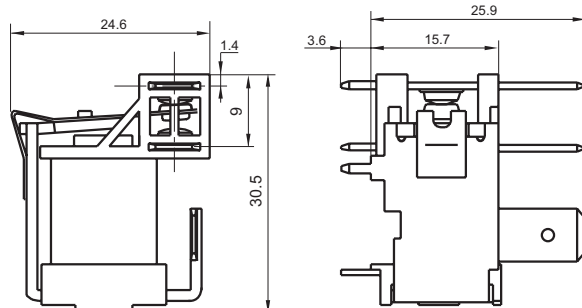
HF2121



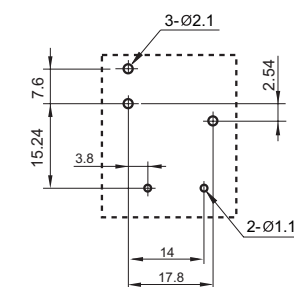
(Bottom view) (Top view)



HF2120

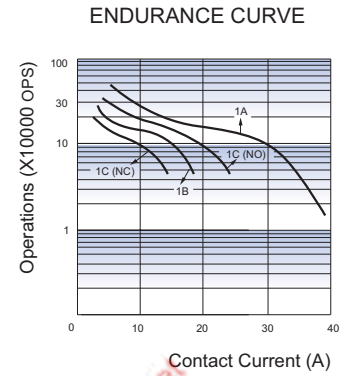
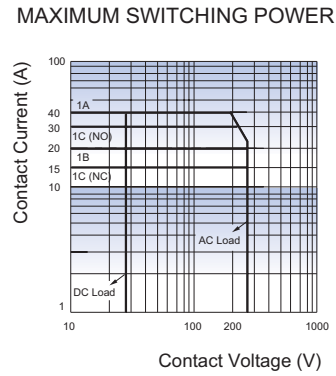
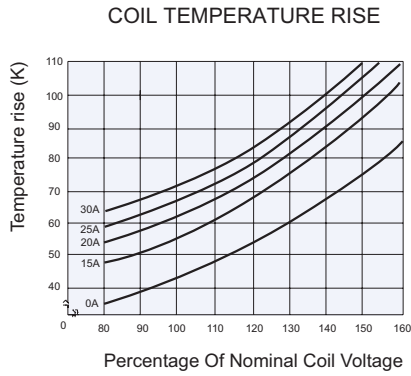


(Bottom view) (Top view)



Remark: 1) In case of no tolerance shown in outline dimension: outline dimension $\leq 1\text{mm}$, tolerance should be $\pm 0.2\text{mm}$; outline dimension $> 1\text{mm}$ and $\leq 5\text{mm}$, tolerance should be $\pm 0.3\text{mm}$; outline dimension $> 5\text{mm}$, tolerance should be $\pm 0.4\text{mm}$.
2) The tolerance without indicating for PCB layout is always $\pm 0.1\text{mm}$.

CHARACTERISTIC CURVES



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Disclaimer

This datasheet is for the customers' reference. All the specifications are subject to change without notice. We could not evaluate all the performance and all the parameters for every possible application. Thus the user should be in a right position to choose the suitable product for their own application. If there is any query, please contact Hongfa for the technical service. However, it is the user's responsibility to determine which product should be used only.



认证号: E134517



认证号: R50153835



认证号: CQC10002049166



特性

- 30A触点切换能力
- 结构紧凑
- 触点与线圈间介质耐压2.5kV
- 具有一组常开、常闭、转换触点形式
- 塑封型和防尘罩型可供选择
- UL绝缘等级: F级绝缘等级可供选择
- 环保产品 (符合RoHS)
- 外形尺寸: (31.8 x 27.0 x 19.1) mm

触点参数

触点形式	1H	1D	1Z(NO)	1Z(NC)
接触电阻	≤50mΩ (1A 24VDC)			
触点材料	AgSnO ₂ , AgCdO			
触点负载(阻性)	30A 240VAC 20A 30VDC	15A 240VAC 10A 30VDC	20A 240VAC 20A 30VDC	10A 240VAC 10A 30VDC
最大切换功率	7200VA 600W	3600VA 300W	4800VA 600W	2400VA 300W
最大切换电压	277VAC / 30VDC			
最大切换电流	40A	15A	20A	10A
机械耐久性	1 x 10 ⁷ 次			
电耐久性	1H型(非塑封型): 1 x 10 ⁵ 次 (30A 240VAC, 阻性负载, AgCdO, 室温, 1s通9s断)			

性能参数

绝缘电阻	1000MΩ (500VDC)	
介质耐压	线圈与触点间	HF2150: 2500VAC 1min HF2151: 2000VAC 1min
	断开触点间	1500VAC 1min
动作时间	≤15ms	
释放时间	≤10ms	
温度范围	-55°C ~ 85°C	
冲击	稳定性	98m/s ²
	强度	980m/s ²
振动	10Hz ~ 55Hz 1.5mm 双振幅	
湿度	5% ~ 85% RH	
引出端形式	印制板式	
重量	约30g	
封装形式	塑封型、防尘罩型	

备注: (1) 塑封型继电器试验时, 应将透气孔打开。

(2) 上述值均为初始值;

(3) 线圈温升详见性能曲线图。

(4) UL绝缘等级: F级、B级。

线圈参数

额定线圈功率	约900mW
--------	--------

线圈规格表

23°C

额定电压 VDC	动作电压 VDC	释放电压 VDC	最大电压* VDC	线圈电阻 Ω
5	≤3.75	≥0.5	6.5	27 x (1±10%)
6	≤4.50	≥0.6	7.8	40 x (1±10%)
9	≤6.75	≥0.9	11.7	97 x (1±10%)
12	≤9.00	≥1.2	15.6	155 x (1±10%)
15	≤11.25	≥1.5	19.5	256 x (1±10%)
18	≤13.50	≥1.8	23.4	380 x (1±10%)
24	≤18.00	≥2.4	31.2	660 x (1±10%)
48	≤36.00	≥4.8	62.4	2560 x (1±10%)
70	≤52.50	≥7.0	91.0	5500 x (1±10%)
110	≤82.50	≥11.0	143.0	13450 x (1±10%)

备注: *最大电压是指继电器线圈在短时间内能够承受的最大电压值。



宏发继电器

ISO9001、ISO/TS16949、ISO14001、OHSAS18001、IECQC QC 080000 认证企业

2016 Rev. 1.00

安全认证

UL/CUL

触点材料	负载类型	负载电压	1H	1D	1Z (NO)	1Z (NC)
AgCdO	通用负载	125/240VAC	30A	15A	30A	15A
		277VAC	30A	30A	30A	30A
	阻性负载	125/240VAC	30A	15A	--	--
		30VDC	20A	10A	20A	10A
		277VAC	20A	--	--	--
		240VAC	15A	--	--	--
		250VAC	40A	--	40A	--
	镇流负载	125/240/277VAC	6A	3A	6A	3A
	领航负载 (一种用来控制其它继电器或开关线圈的负载类型)	125VAC	800VA	290VA	800VA	290VA
		125VAC	690VA	--	690VA	--
		125VAC	800VA	--	800VA	--
		240VAC	1152VA	768VA	1152VA	768VA
	电机负载	277VAC	764VA	--	764VA	--
		125VAC	1HP	1/4HP	1HP	1/4HP
		240VAC	2HP	1HP	2HP	1HP
		125VAC	1HP	--	1HP	--
	特定负载 (LRA负载) (FLA满载)	125/277VAC	3/4HP	--	3/4HP	--
		120VAC	82.8LRA, 13.8FLA	--	82.8LRA, 13.8FLA	--
		125VAC	96LRA, 30FLA	33LRA, 10FLA	60LRA, 20FLA	33LRA, 10FLA
		125VAC	60LRA, 20FLA	30LRA, 12FLA	60LRA, 20FLA	30LRA, 12FLA
		125VAC	82.8LRA, 27FLA	--	82.8LRA, 27FLA	--
		240VAC	80LRA, 30FLA	33LRA, 10FLA	60LRA, 20FLA	33LRA, 10FLA
		240VAC	41.4LRA, 6.9FLA	--	41.4LRA, 6.9FLA	--
	灯负载	277VAC	60LRA, 20FLA	--	60LRA, 20FLA	--
125VAC		15A	--	15A	--	
240VAC		5A	--	5A	3A	
120VAC		--	3A	--	--	
AgSnO ₂	通用负载	240VAC	--	3A	--	--
	通用负载	125/240VAC	30A	--	--	--
	阻性负载	250VAC	40A	--	--	--

备注: (1) 表中未注明温度的负载, 均指环境温度为室温;

(2) 以上仅列出了该产品认证的部分典型负载, 每个负载的详细测试条件不同, 因此电耐久性次数不一样, 如需了解详细情况, 请与我司联系。

订货标记示例

继电器型号	HF2150 HF2151	-1A	-12D	E	T	F	(XXX)
触点形式	1A: 一组常开(1H) 1B: 一组常闭(1D) 1C: 一组转换(1Z)						
线圈电压	5, 6, 9, 12, 15, 18, 24, 48, 70, 110VDC						
封装方式 ⁽¹⁾	E: 塑封型	无: 防尘罩型					
触点材料	T: AgSnO ₂	无: AgCdO					
绝缘等级	F: F级	无: B级					
特性号 ⁽³⁾	XXX: 客户特殊要求	无: 标准型					

备注: (1) 在洁净环境(不含H₂S、SO₂、NO₂、粉尘等污染物)下使用时, 推荐使用防焊剂型产品;

在污染环境(含一定量的H₂S、SO₂、NO₂、粉尘等污染物)下使用时, 建议选用塑封型产品, 并在实际使用中进行确认;

(2) 当继电器装入PCB板焊接后, 如需进行整体清洗或表面处理, 请与我司联系, 以便商定合适的焊接条件、合适的产品规格。

(3) 客户特殊要求由我司评审后, 按特性号的形式标识。

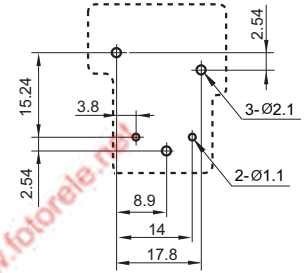
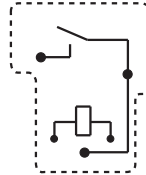
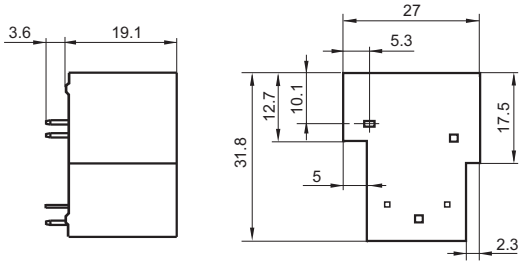
外形图

接线图(底视图)

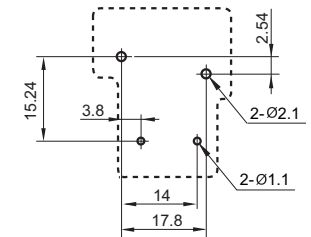
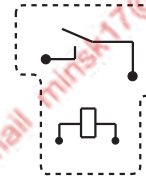
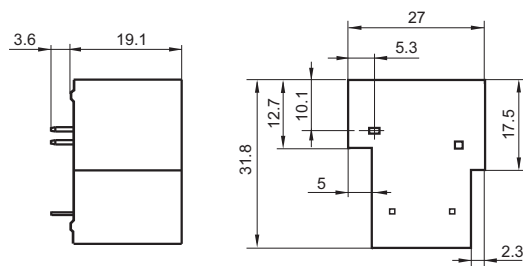
安装孔尺寸(底视图)

一组常开

HF2151

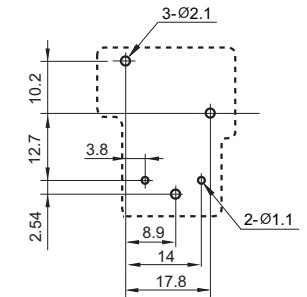
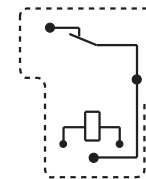
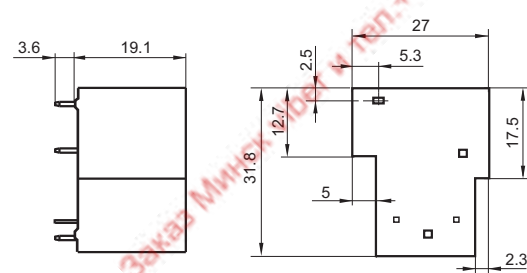


HF2150

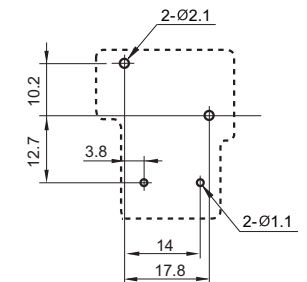
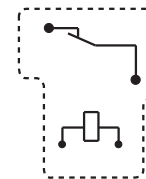
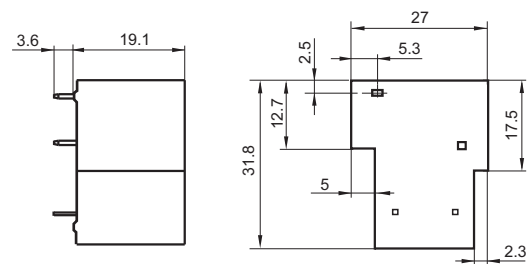


一组常闭

HF2151



HF2150



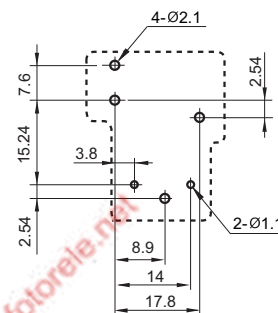
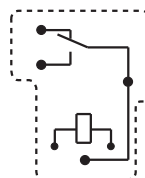
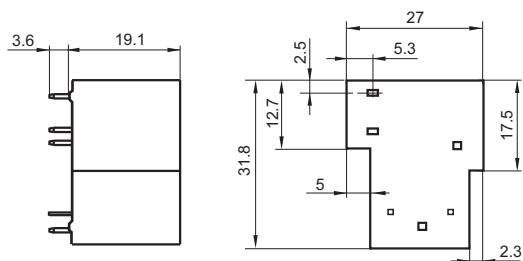
外形图

接线图(底视图)

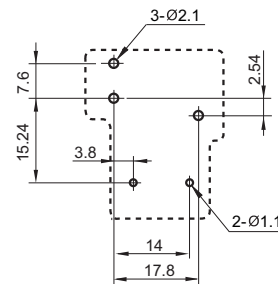
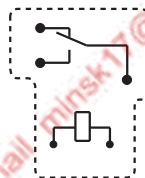
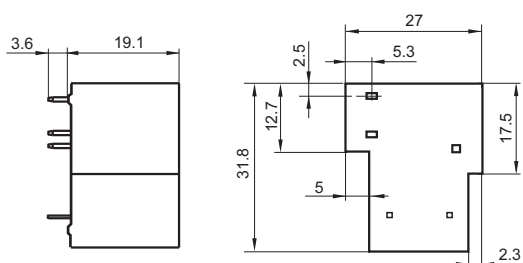
安装孔尺寸(底视图)

一组转换

HF2151



HF2150



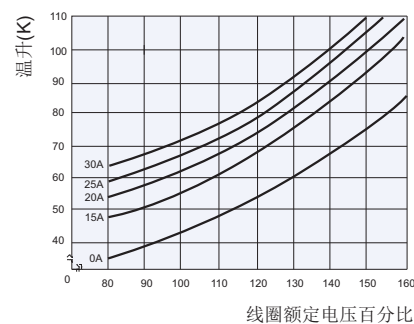
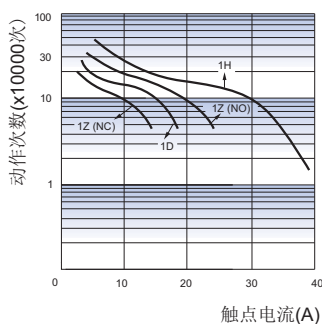
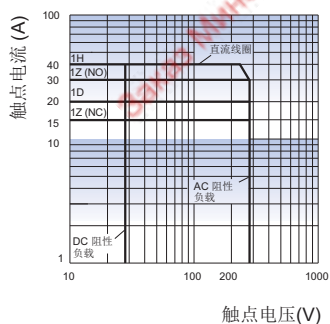
备注: (1) 产品部分外形尺寸未注尺寸公差, 当外形尺寸 $\leq 1\text{mm}$, 公差为 $\pm 0.2\text{mm}$; 当外形尺寸在 $(1 \sim 5)\text{mm}$ 之间时, 公差为 $\pm 0.3\text{mm}$; 当外形尺寸 $> 5\text{mm}$, 公差为 $\pm 0.4\text{mm}$;
(2) 安装孔尺寸中未注尺寸公差为 $\pm 0.1\text{mm}$ 。

性能曲线图

最大切换功率

电耐久性曲线

线圈温升



测试条件: 阻性负载, AgCdO, 防尘罩型, 室温, 1s通9s断。

声明:

本产品规格书仅供客户使用时参考, 其中未明确规定的要求条件, 详见“继电器术语解释及使用指南”。若有更改, 恕不另行通知。
对宏发而言, 不可能评定继电器在每个具体应用领域的所有性能参数要求, 因而客户应根据具体的使用条件选择与之相匹配的产品, 若有疑问, 请与宏发联系以便获取更多的技术支持。但产品选型责任仅由客户负责。

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■ FEATURES

- Designed for the Appliance Industry and Heating, Ventilating and Air-Conditioning
- Switching Capacity up to 30A & inexpensive
- It is offered as an open, dust cover and sealed type
- UL File No. E147052
- CSA File No. LR76479-1



■ COIL RATING (at 20°C)

Nominal Voltage (VDC)	Coil Resistance ($\Omega \pm 10\%$)	Pick-Up Voltage (VDC)	Drop-Out Voltage (VDC)	Nominal Power (W) Consumption
5	27	3.75	0.5	0.93
6	40	4.50	0.6	0.90
9	97	6.75	0.9	0.84
12	155	9.00	1.2	0.93
15	256	11.25	1.5	0.88
18	380	13.50	1.8	0.85
24	660	18.00	2.4	0.87
48	2560	36.00	4.8	0.97

■ ORDERING INFORMATION

- BS-901CS-12VDC

Model No.	Contact Arrangement	Protection	Coil Voltage
BS-901	A: 1 Form A C: 1 Form C	Nil : Open C: Dust Cover S: Sealed	See Coil Rating

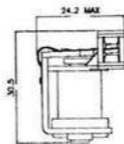
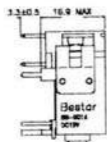
SPECIFICATIONS

Model No.		BS-901	
Contact Arrangement		1 Form A	1 Form C
Contact Material		Silver Alloy	
Contact Rating	Resistive Load	30A 240VAC 30A 28VDC	NO:20A 240VAC NC:15A 28VDC
	Motor Load	2HP 240VAC 1HP 120VAC	NO:2HP 240VAC 1HP 120VAC NC:1/2HP 240VAC 1/4HP 120VAC
Contact Resistance		Max. 100mΩ (initial)	
Max. Switching Current		30A	20A
Max. Switching Voltage		240VAC, 30VDC	
Min. Switching Load		1A 5VDC, or 12VDC	
Insulation Resistance		Min. 100MΩ at 500VDC	
Dielectric Strength			
Between Coil & Contact		1500VAC 50 HZ/60 HZ (1 minute)	
Between Contacts		1500VAC 50 HZ/60 HZ (1 minute)	
Operate Time		Max. 15mSec.	
Release Time		Max. 10mSec.	
Ambient Temperature		-55°C ~ +85°C	
Vibration Resistance (Endurance)		1.0mm D.A. 10-55HZ	
Shock Resistance		Unerror 10G	
Mechanical Life		10,000,000 Operations (no load)	
Electrical Life		100,000 Operations (at rated load)	
Weight		Approx. 20g (Open type), 25g (Sealed type)	

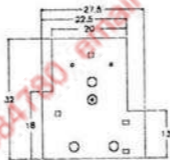
BS-901

DIMENSIONS (in mm)

*Open Type



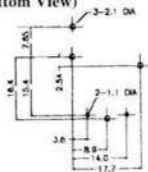
*Sealed Type

WIRING DIAGRAM
(Bottom View)

I Form A



I Form C

DRILLING PLAN (in mm)
(Bottom View)TOLERANCE: ± 0.1

G8P

PCB Power Relay

Up to 30 A switching capacity in compact package. 2.0 mm contact gap type available (G8P-1A4P-BG)

- Available with quick-connect contact terminals for easy load connecting with either QC or PCB coil terminals.
- UL Class F coil insulation standard.
- Minimum 6 kV Impulse Surge Withstand.
- Standard model conforms to UL/CSA standards.
- VDE approved.
- NEW G8P-1A4P-BG (Special type)
2.0 mm contact gap, high dielectric strength 4,000VAC.



RoHS Compliant

Model Number Legend

G8P-□□□□-□-□
1 2 3 4 5 6

- | | | |
|---|--|--|
| <p>1. Number of poles
1: 1-pole</p> <p>2. Contact Form
A: SPST-NO (1a)
C: SPDT (1c)</p> | <p>3. Enclosure rating
None: Open frame
2: Unsealed (Vented)
4: Fully sealed (Sealed with ventable nib)</p> <p>4. Terminal Shape
P: PCB terminals
T: Quick-connect terminals (#250 terminals for contacts and #187 terminals for coil)
TP: PCB & Quick-connect terminals (#250 terminals) and straight PCB for contacts, and straight PCB for coil</p> | <p>5. Mounting
None: PCB mounting
F: Flanged mounting</p> <p>6. Special
BG: 2.0 mm contact gap</p> |
|---|--|--|

Application Examples

- Ideal for home and industrial appliances
- HVAC (heating, ventilating, and air conditioning)
- Solar Inverter
- Many other applications

Ordering Information

Classification	Relay Function	Terminal Shape	Contact form	Enclosure rating	Model	Rated coil voltage	Minimum packing unit
Standard	Single-side Stable	PCB terminals	SPST-NO (1a)	Open frame	G8P-1AP	5VDC 9VDC 12VDC 24VDC 48VDC 110VDC (-BG: 12VDC, 24VDC)	50 pcs/tray
				Sealed with ventable nib	G8P-1A4P-BG		
			SPDT (1c)	Open frame	G8P-1CP		
				Sealed with ventable nib	G8P-1C4P		
		PCB & Quick connect terminals	SPST-NO (1a)	Open frame	G8P-1ATP		
				Sealed with ventable nib	G8P-1A4TP		
			SPDT (1c)	Open frame	G8P-1CTP		
				Sealed with ventable nib	G8P-1C4TP		
		Quick-contact terminals	SPST-NO (1a)	Vented	G8P-1A2T-F		
			SPDT (1c)	Vented	G8P-1C2T-F		

Note: When ordering, add the rated coil voltage to the model number.
Example: G8P-1AP 12 VDC
Rated coil voltage

■ Ratings

● Coil

Rated voltage (VDC)	Rated current (mA)	Coil resistance (Ω)	Must operate voltage (V)	Must release voltage (V)	Max. voltage (V)	Power consumption (mW)
			% of rated voltage			
5	185	27	75% max.	10% min.	120% max.	Approx. 900
9	93	97				
12	77	155				
24	36	660				
48	19	2,480				
110	9	12,400				

- Note:**
1. The rated current and coil resistance are measured at a coil temperature of 23°C with a tolerance of ±10%.
 2. The operating characteristics are measured at a coil temperature of 23°C.
 3. The “Max. voltage” is the maximum voltage that can be applied to the relay coil.

● Contact

Load	Resistive load	
	SPST-NO (1a)	SPDT (1c)
Contact Type	Single	
Contact material	Ag-alloy (Cd free)	
Rated load	30A at 250VAC (-BG: 20A at 250VAC) 20A at 28VDC (-BG: ----)	20A/10A (See note.) at 250VAC 20A/10A (See note.) at 28VDC
Rated carry current	30A (-BG: 20A)	20A/10A (See note.)
Max. switching voltage	250VAC 28VDC (-BG: 250VAC)	250VAC 28VDC
Max. switching current	AC30A DC20A (-BG: AC20A)	AC20A/10A DC20A/10A (See note.)

Note: NO contact/NC contact

■ Characteristics

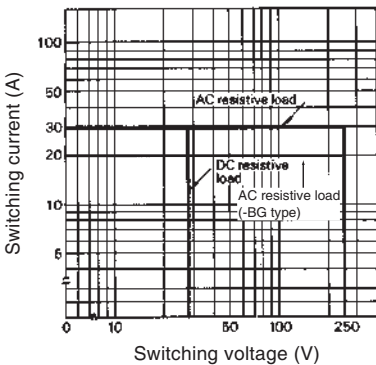
Item	Classification	Standard model
Contact resistance *1		100 mΩ max.
Operate time		15 ms max. (-BG: 20ms max.)
Release time		10 ms max.
Insulation resistance *2		100 MΩ min. (at 500 VDC)
Dielectric strength	Between coil and contacts	2,500 VAC, 50/60 Hz for 1 min (-BG: 4,000VAC)
	Between contacts of the same polarity	1,500 VAC, 50/60 Hz for 1 min
Impulse withstand voltage	Between coil and contacts	6,000 V (1.2/50 μs) between coil and contacts
Vibration resistance	Destruction	10 to 55 to 10 Hz, 0.825-mm single amplitude (1.65-mm double amplitude) for 2 hours (-BG: 10 to 55 to 10 Hz, 0.75-mm single amplitude (1.5-mm double amplitude) for 2 hours)
	Malfunction	10 to 55 to 10 Hz, 0.825-mm single amplitude (1.65-mm double amplitude) for 5 minutes
Shock resistance	Destruction	1,000m/s ² (approx. 100G)
	Malfunction	100 m/s ² (approx. 10G)
Durability	Mechanical	10,000,000 operation min. (at 18,000 operations/hr) (-BG: 5,000,000 operation min.)
	Electrical	100,000 operations approx. (at 360 operations/hr) (-BG: 40,000 operation min.)
Ambient operating temperature		-55° to 105°C, cold coil condition (with no icing) -55° to 85°C, hot coil condition (hot start) (with no icing)
Ambient operating humidity		5% to 85%
Weight		Approx. 24 g to 31g

Note: The data shown above are initial value.

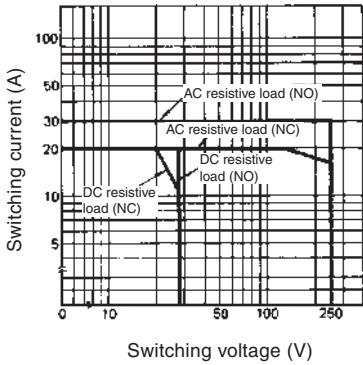
1. Measurement conditions: 5 VDC, 1 A, voltage drop method.
2. Measurement conditions: Measured at the same points as the dielectric strength using a 500 VDC ohmmeter.

Engineering Data

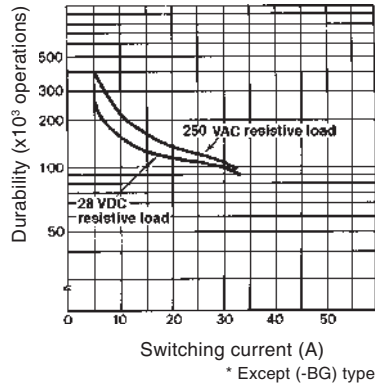
Maximum switching capacity
SPST-NO (1a)



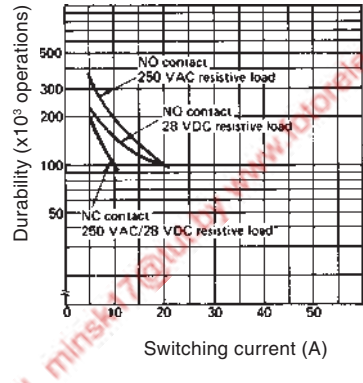
SPDT (1c)



Durability
SPST-NO (1a)



SPDT (1c)

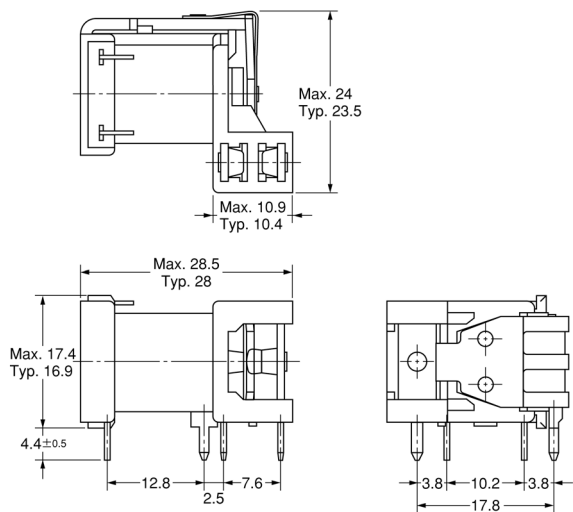


■ Dimensions

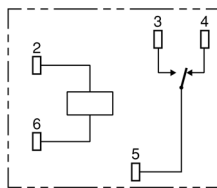
● Open Frame Types

Unit: mm

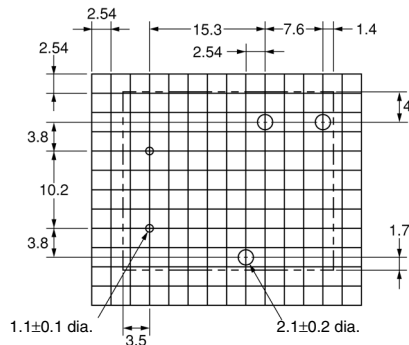
G8P-1CP/1AP



Terminal Arrangement/
Internal Connections
(Bottom View)

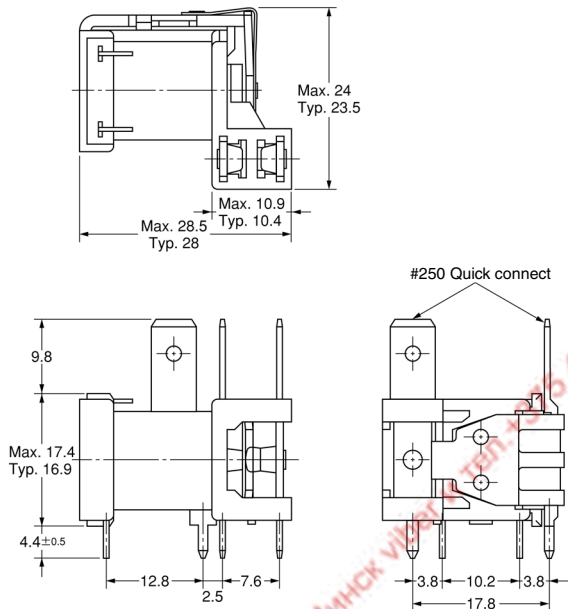


Mounting Holes (Bottom View)

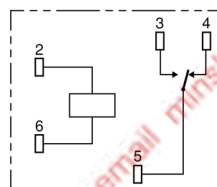


Note: Pin #4 is omitted on G8P-1AP

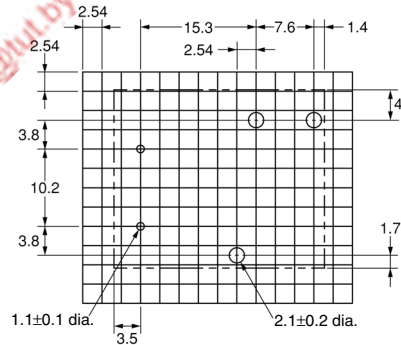
G8P-1CTP/1ATP



Terminal Arrangement/
Internal Connections
(Bottom View)



Mounting Holes (Bottom View)



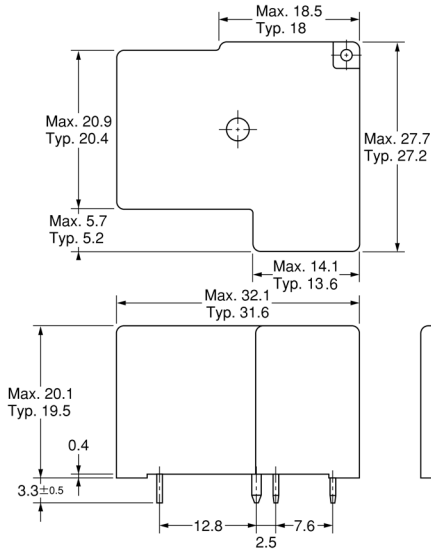
Note: Pin #4 is omitted on G8P-1ATP

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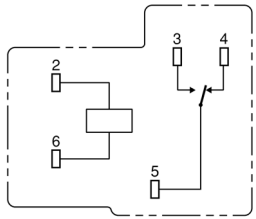
G8P

● Fully-Sealed Types/Unsealed Types

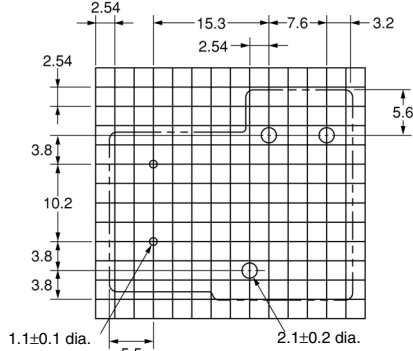
G8P-1C4P/1A4P/1C2P/1A2P



Terminal Arrangement/
Internal Connections
(Bottom View)

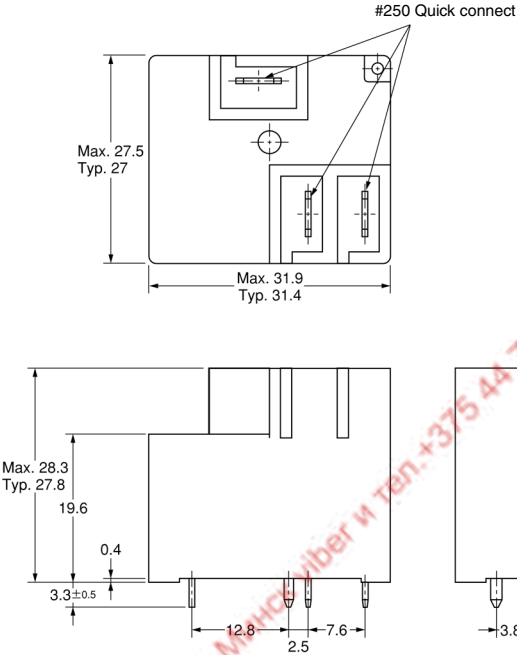


Mounting Holes (Bottom View)

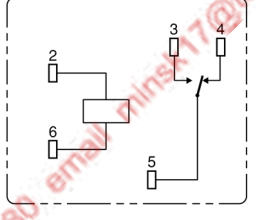


Note: Pin #4 is omitted on G8P-1A4P/1A2P

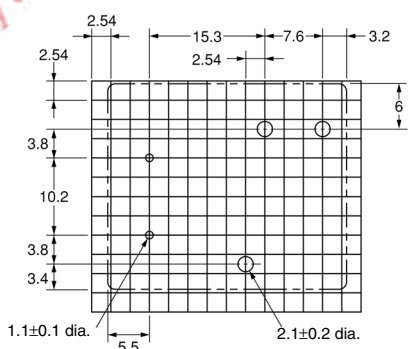
G8P-1C4TP/1A4TP/1C2TP/1A2TP



Terminal Arrangement/
Internal Connections
(Bottom View)



Mounting Holes (Bottom View)



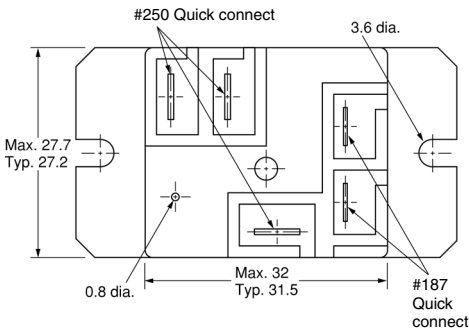
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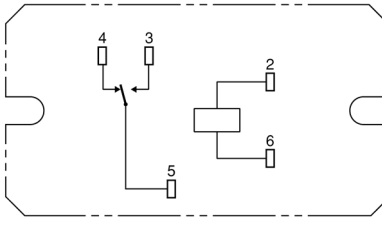
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● Flange Mounting Types

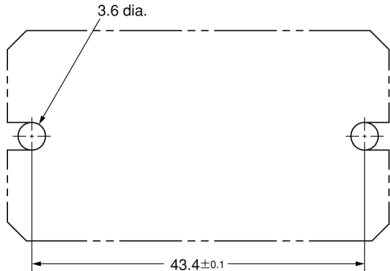
G8P-1C2T-F/1A2T-F



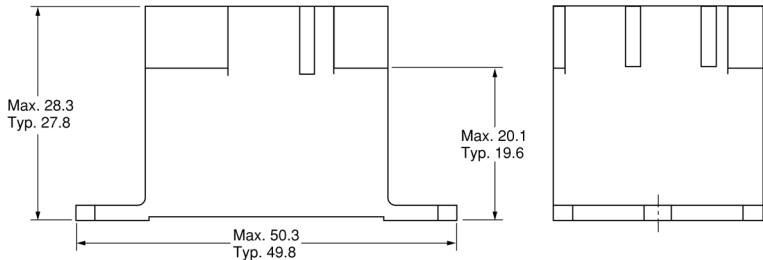
Terminal Arrangement/Internal Connections (Bottom View)



Mounting Holes (Bottom View)



Note: Pin #4 is omitted on G8P-1A2T-F





Note: Allow air circulation within the sealed type G8P by removing the knock off nib from the cover after soldering and cleaning is complete.

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■ Approved Standards

● UL Recognized  (File No. E41643), CSA Certified  (File No. LR31928)

Model	Contact form	Coil ratings	Contact ratings	Number of test operations			
G8P-1AP G8P-1A4P G8P-1ATP G8P-1A4TP G8P-1A2T-F	SPST-NO (1a)	5 to 110 VDC	30 A, 240 VAC (G.P./Res.), 40°C	50,000			
			20 A, 28 VDC (Res.), 40°C	6,000			
			20 A, 240 VAC (Res.), 70°C	100,000			
			23 A, 240 VAC (Res.), 85°C				
			1 HP, 125-250 VAC, 40°C	1,000			
			2 HP, 250 VAC, 40°C				
			A300 Pilot Duty, 40°C	6,000			
			20 FLA, 96 LRA, 125 VAC, 40°C	100,000			
			5 A, 250 VAC (Tungsten), 40°C	6,000			
			20 A, 120-277 VAC (Ballast), 40°C				
			TV-5, 40°C	25,000			
			G8P-1A4P-BG			30 A, 277 VAC (Res.), 85°C	30,000
			G8P-1CP G8P-1C4P G8P-1CTP G8P-1C4TP G8P-1C2T-F	SPDT (1c)	5 to 110 VDC	30 A/20 A, 277 VAC (Res.), 40°C	100,000 (N.O.) and 30,000 (N.C.)
20 A/15 A, 250 VAC (Res.), 105°C							
20 A/10 A, 28 VDC (Res.), 40°C	6,000						
30 A/30 A, 277 VAC (Res.), 40°C	10,000						
1/2 HP/1/2 HP, 125 VAC, 40°C	100,000						
2 HP/ 1/2 HP, 250 VAC, 40°C	1,000						
1 HP/ 1/4 HP, 125 VAC, 40°C							
B150 Pilot Duty, 40°C	100,000						
5 A/ 3 A, 250 VAC (Tungsten), 40°C	6,000						
6 A/ 3 A, 277 VAC (Ballast), 40°C							
TV-5 (N.O.), 40°C	25,000						

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● VDE certified type  (Licence No. 40004714)

- Note:**
1. The rated values approved by each of the safety standards (e.g., UL, CSA) may be different from the performance characteristics individually defined in this catalog.
 2. For information on additional ratings not included in this catalog, contact your local Omron Representative.
 3. In the interest of product improvement, specifications are subject to change.
 4. Please contact Omron for details regarding VDE approvals.
 5. Meets requirements of pollution degree 2 with Material II & III.

■ Precautions

● Please refer to "PCB Relays Common Precautions" for correct use.

Correct Use

● Regarding the Electrical Appliance and Material Safety Law (Japan)

The G8P series is not compliant with the Electrical Appliance and Material Safety Law. Pay careful attention to select a suitable Relay for the application.

● Recommended soldering condition

- Pre-heat at 120°C maximum within 120 seconds.
- Complete soldering at 265°C maximum within 6 seconds.

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- Application examples provided in this document are for reference only. In actual applications, confirm equipment functions and safety before using the product.
- Consult your OMRON representative before using the product under conditions which are not described in the manual or applying the product to nuclear control systems, railroad systems, aviation systems, vehicles, combustion systems, medical equipment, amusement machines, safety equipment, and other systems or equipment that may have a serious influence on lives and property if used improperly. Make sure that the ratings and performance characteristics of the product provide a margin of safety for the system or equipment, and be sure to provide the system or equipment with double safety mechanisms.


Note: Do not use this document to operate the Unit.

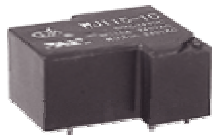
OMRON Corporation

ELECTRONIC AND MECHANICAL COMPONENTS COMPANY

Contact: www.omron.com/ecb

**Cat. No. K040-E1-01
0812(0207)(O)**

 WANJIA Relays for advanced technology	ECONOMICAL 30AMP DC COIL PC BOARD RELAY	WJ115-RELAYS
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- High switching capacity - 30A for 1 Form A
- 2 contact arrangements - 1 Form A or 1 Form C
- Sealed type available
- UL/C-UL recognized

	1 Form A	1 Form C	
		N.C.	N.O.
UL/C-UL Rating			
Resistive load (cos φ=1)	30A 240VAC 30A 120VAC	10A 240VAC 10A 120VAC	20A 240VAC 20A 120VAC
Inductive load (cos φ=0.75•0.8)	15A 240VAC 15A 120VAC	10A 240VAC 10A 120VAC	10A 240VAC 10A 120VAC
Motor load	1-1/2HP 240VAC 3/4HP 120VAC	1/2HP 240VAC 3/4HP 120VAC	1-1/2HP 240VAC 3/4HP 120VAC

SPECIFICATIONS

Contact

Arrangement	1 Form A	1 Form C
Contact Material	Silver alloy	
Contact Resistance (By voltage 6V 1A)	Max.100m•	
Rating		
Max. Switching power	7200VA	N.C.: 2400VA N.O.: 4800VA
Max. Switching voltage	250VAC	
Max. Switching current	30A	N.C.: 10A N.O.: 20A
Expected life(min.ope)	Min.1×10 ⁷	
Mechanical(at 120 cpm)		
Electrical(at 20 cpm)	30A 240VAC Min.1×10 ⁵	N.O. 20A 240VAC Min.1×10 ⁵ N.C. 10A 240VAC Min.1×10 ⁵

Characteristics

Operate Time	Max.15msec.	
Release Time	Max.10msec.	
Initial Insulation Resistance	Min.100M• (500 VDC)	
Initial breakdown voltage		
Between coil & contact	2500VAC (50/60Hz)for 1 min	
Between open contacts	2500VAC (50/60Hz)for 1 min.	
Shock Resistance	Functional	Min.10G
	Destruction	Min.100G
Vibration Resistance	Functional	10 to 55 Hz at double Amplitude of 1.5mm
	Destruction	10 to 55 Hz at double Amplitude of 1.5mm
Ambient temperature	-55••+85•	
Unit weight	Approx.30g	

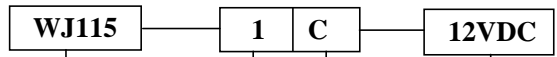
Coil

Nominal operating power	Approx.0.9W
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TYPICAL APPLICATION

1. Automotive
2. Air conditioner
3. Heating & ventilation
4. Home appliance

ORDERING INFORMATION



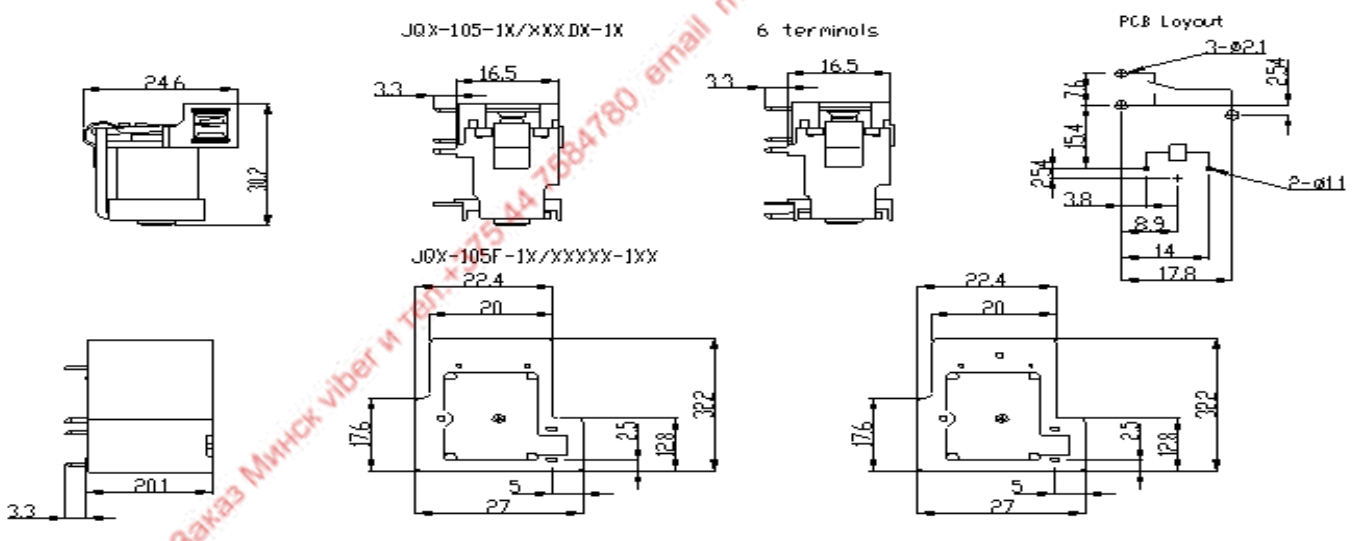
Type	Number of pole	Contact form	Coil voltage(DC)
WJ115	1 : 1 pole	1A : 1 Form A 1B : 1 Form B 1C : 1 Form C	5, 6, 9, 12, 18, 24, 48, 110V

COIL DATA (at 20•)

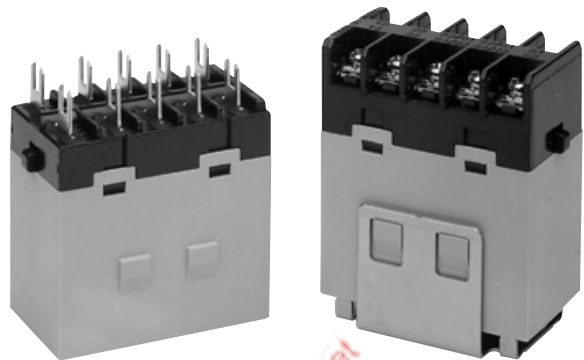
Nominal Voltage (VDC)	Pick-up Voltage VDC(Max.)	Drop-out Voltage VDC(Min.)	Coil Resistance (•)±10%	Nominal operating Power (W)	Max.Allowable Voltage
5	3.75	0.5	27	0.926	120% of nominal Voltage
6	4.50	0.6	40	0.900	
9	6.75	0.9	97	0.835	
12	9.00	1.2	155	0.930	
15	11.25	1.5	256	0.879	
18	13.5	1.8	380	0.853	
24	18.00	2.4	660	0.873	
48	36.0	4.8	2560	0.900	
110	82.5	11.0	13400	0.900	

DIMENSIONS

Unit: mm



- Ideal for 3-phase motor control applications and resistive and inductive loads
- No contact chattering for momentary voltage drops up to 50% of rated voltage
- Withstands more than 4 kV between contacts that are of different polarity and between the coil and contacts
- Flame-resistant materials (UL94V-0) used for all insulation
- Push-to-test button on all models lets user check contact operation



Ordering Information

To Order: Select the part number and add the desired coil voltage rating (e.g., G7J-3A1B-B-AC100/120).

Type	Contact form	Part number		
		Quick-connect terminal	Screw terminal	PCB terminal
PCB mounting	4PST-NO	—	—	G7J-4A-P
	3PST-NO/SPST-NC	—	—	G7J-3A1B-P
	DPST-NO/DPST-NC	—	—	G7J-2A2B-P
W-bracket (see note)	4PST-NO	G7J-4A-T	G7J-4A-B	
	3PST-NO/SPST-NC	G7J-3A1B-T	G7J-3A1B-B	
	DPST-NO/DPST-NC	G7J-2A2B-T	G7J-2A2B-B	

Note: The G7J-B relays require a W-bracket for mounting. Order the bracket separately below. To order a relay and bracket packed together, add "-W1" to the part number before the coil voltage suffix. For example, G7J-2A2B-B-W1-AC100/120.

ACCESSORIES

Types	Applicable relays	Part number
W-brackets	G7J-4A-B, G7J-3A1B-B, G7J-2A2B-B	R99-04-FOR-G5F

TYPICAL APPLICATIONS

Compressors for air conditioners and heater switching controllers.

Switching controllers for power tools or motors.

Lamp controls, motor drivers, and power supply switching controllers in copy machines, facsimile machines, and other office equipment.

Power controllers for packers or food processing equipment.

Power controllers for inverters.

Specifications

■ CONTACT DATA

Load	Resistive load (p.f. = 1)	
	NO	NC
Rated load	25 A, 220 VAC (24 A, 230 VAC), 25 A, 30 VDC	8 A, 220 VAC (7.5 A, 230 VAC), 8 A, 30 VDC
Rated carry current	25 A	8 A
Max. switching voltage	250 VAC, 125 VDC	
Max. switching current	25 A	8 A
Max. switching capacity	5,500 VA, 750 W DC	1,760 VA, 240 W DC
Min. permissible load	100 mA, 24 VDC at 120 operations/minute, 23°C (73°F) ambient temperature)	

■ COIL DATA

AC

Coil voltage	Rated voltage (VAC)	Rated current (mA)	Coil resistance (Ω)	Must operate	Must release	Max. voltage	Power consumption
				% of rated voltage			
24	24	75	—	75% max.	15% min.	110%	Approx. 1.8 to 2.6 VA
50	50	36	—				
100/120	100 to 120	18 to 21.60	—	75 volts	18 volts	132 volts	
200/240	200 to 240	9 to 10.80	—	150 volts	36 volts	264 volts	

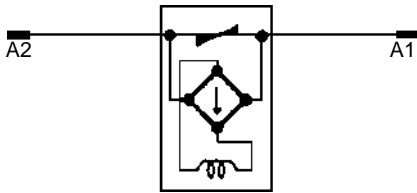
DC

Coil voltage	Rated voltage (VDC)	Rated current (mA)	Coil resistance (Ω)	Must operate	Must release	Max. voltage	Power consumption
				% of rated voltage			
12	12	167	72	75% max.	10% min.	110%	Approx. 2.0 W
24	24	83	288				
48	48	42	1150				
100	100	20	5000				
110	110	18	6050				

- Note: 1. The rated current and coil resistance are measured at a coil temperature of 23°C (73°F) with tolerances of +15%/-20% for AC rated current and ±15% for DC coil resistance.
 2. Performance characteristic data are measured at a coil temperature of 23°C (73°F).

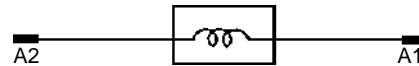
■ COIL INTERNAL CIRCUIT

AC operating coil

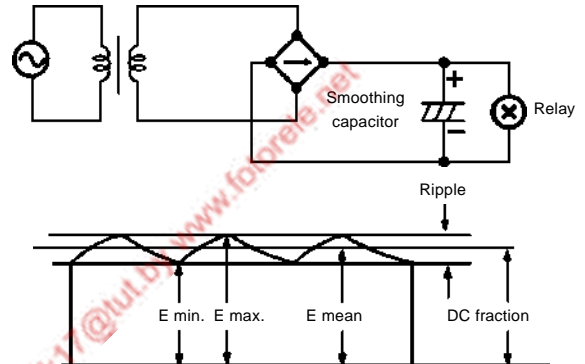


The G7J incorporates a bridge rectifier circuit in the AC coil versions that prevents contact chatter or dropout during a voltage drop. This circuit allows the relays to withstand, with no vibration or shock, voltage drops to the coil of up to 50% of the rated coil voltage for one second maximum.

DC operating coil



As a rule, either a DC battery or a DC power supply with a maximum of 5% ripple must be used for the operating voltage for DC relays. Before using a rectified AC supply, confirm that the ripple is not greater than 5%. Ripple greater than this can lead to variations in the operating and reset voltages. As excessive ripple can generate pulses, the insertion of a smoothing capacitor is recommended as shown below.



$$\% \text{ of ripple} = \frac{E \text{ max.} - E \text{ min.}}{E \text{ mean}} \times 100$$

E max.: Maximum ripple

E min.: Minimum ripple

E mean: Mean DC voltage value

When driving the coil with a transistor, check the leakage current and connect a bleeder resistor if necessary.

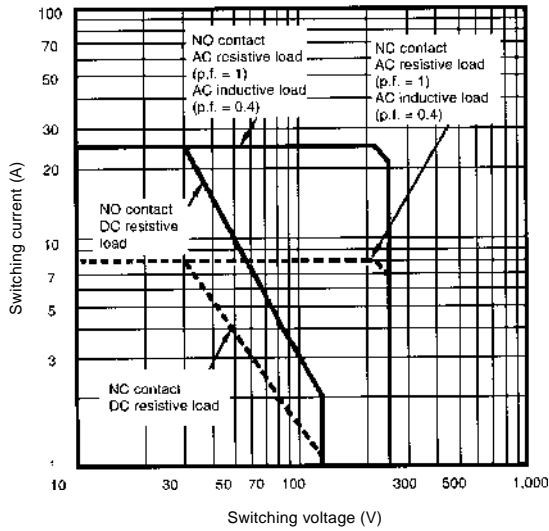
■ CHARACTERISTICS

Contact resistance		50 mΩ max.
Operating time		50 ms max.
Release time		50 ms max.
Operating frequency	Mechanical	1,800 operations/hour max.
	Electrical	1,800 operations/hour max.
Insulation resistance		1,000 MΩ minimum at 500 VDC
Dielectric strength		4,000 VAC, 50/60 Hz for 1 minute between coil and contacts
		4,000 VAC, 50/60 Hz for 1 minute between contacts of different polarity
		2,000 VAC, 50/60 Hz for 1 minute between contacts of the same polarity
Impulse withstand voltage		10,000 V between coil and contact with 1.2 x 50 μs impulse wave
Vibration	Mechanical durability	10 to 55 Hz, 1.50 mm (0.06 in) double amplitude
	Malfunction durability	NO: 10 to 55 Hz, 1.50 mm (0.06 in) double amplitude
		NC: 10 to 26 Hz, 1.50 mm (0.06 in) double amplitude
Shock	Mechanical durability	1000 m/s ² (Approx. 100 G)
	Malfunction durability	NO: 100 m/s ² (Approx. 10 G)
		NC: 20 m/s ² (Approx. 2 G)
Service life	Mechanical	1 million operations minimum at 1,800 operations/hour
	Electrical	100,000 operations minimum at 1,800 operations/hour at rated load
Ambient temperature	Operating	-25° to 60°C (-13° to 140°F) with no icing
Humidity	Operating	35% to 85% RH
Weight	PCB terminal	Approx. 140 g (4.90 oz.)
	Screw terminal	Approx. 165 g (5.80 oz.)

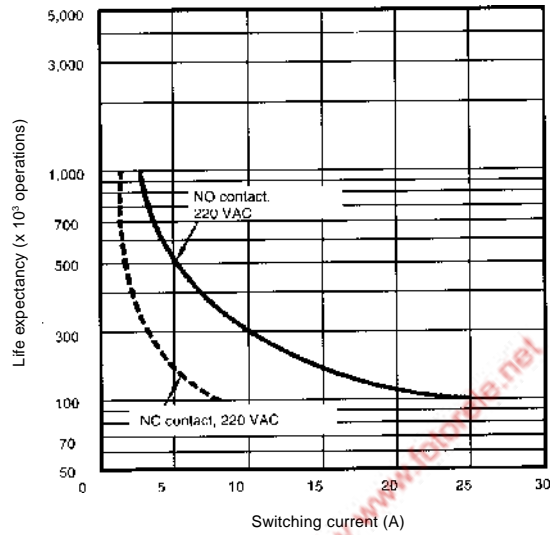
Note: Data shown are of initial value.

■ CHARACTERISTIC DATA

Maximum switching capacity



Electrical service life

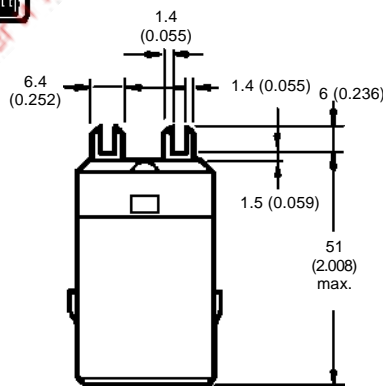
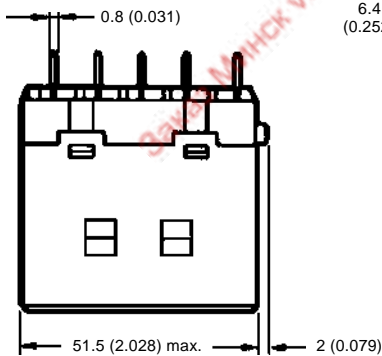
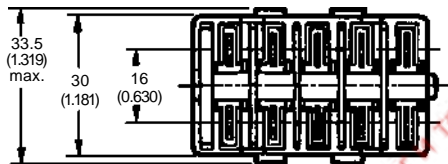


Dimensions

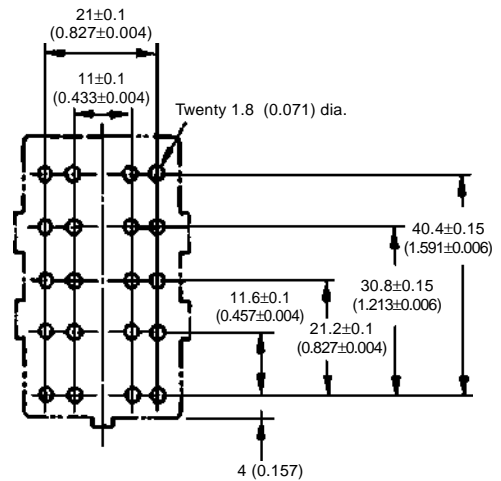
Unit: mm (inch)

■ RELAYS

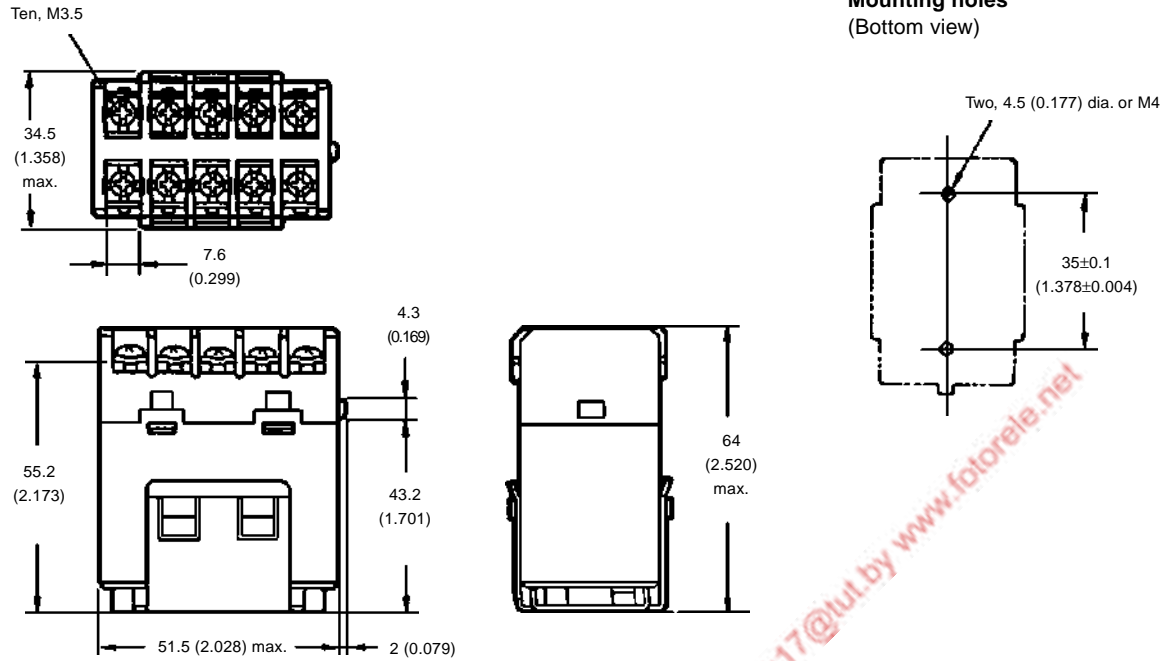
PCB Terminals with PCB Mounting
G7J-4A-P, G7J-3A1B-P, G7J-2A2B-P



Mounting holes
(Bottom view)

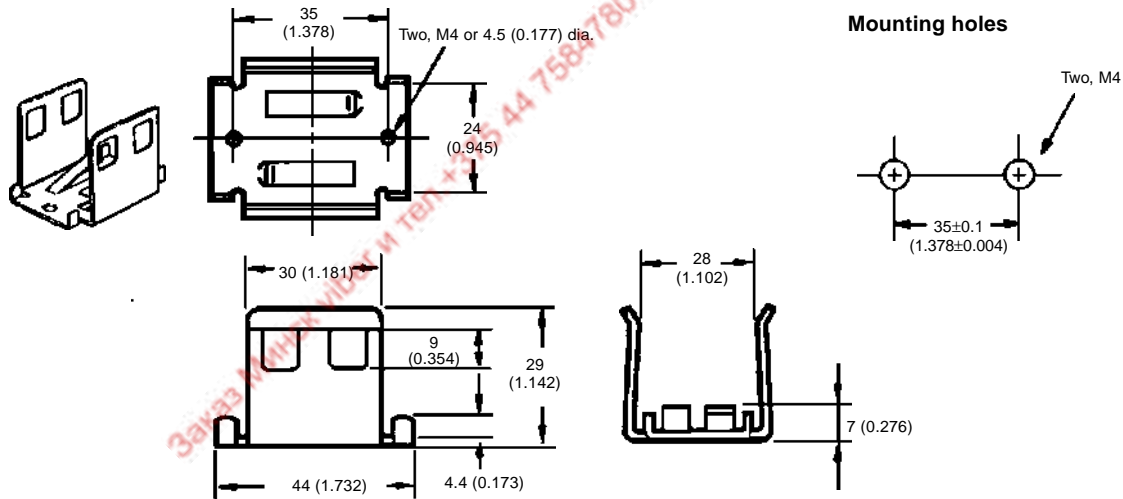


Screw Terminals (requires W-bracket for mounting)
G7J-4A-B, G7J-3A1B-B, G7J-2A2B-B



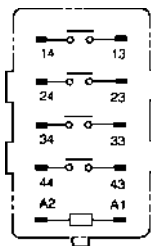
■ **ACCESSORIES**

W-Bracket for G7J-B Relays with Screw Terminals
R99-04-FOR-G5F

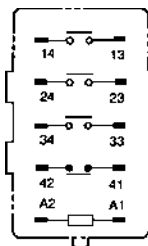


■ **TERMINAL ARRANGEMENT – INTERNAL CONNECTIONS**

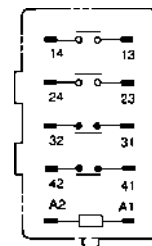
G7J-4A-P(B)



G7J-3A1B-P(B)



G7J-2A2B-P(B)



■ APPROVALS

UL 508 and 1950 (Recognized, File No. E41643)/CSA 22.2 No. 14 (Certified, File No. LR 35535)

Contact arrangement	Load type	Contact ratings
Normally Open	Resistive	25 A, 277 VAC, 30,000 cycles
		25 A, 30 VDC, 30,000
	General use	25 A, 120 VAC, 30,000 cycles
		25 A, 277 VAC, 30,000 cycles
		25 A, 240 VAC, 100,000 cycles
	Tungsten	1.5 kW, 120 VAC
	Motor load	1.5 HP, 120 VAC
		3 HP, 240/265/277 VAC
		3-phase, 3 hp, 240/265/277 VAC, 30,000 cycles
		3-phase, 5 hp, 240/ 265/277 VAC, 30,000 cycles
20 FLA/120 LRA, 120 VAC, 30,000 cycles		
17 FLA/102 LRA, 277 VAC, 30,000 cycles		
TV	TV-10, 120 VAC	
Normally Closed	Resistive	8 A, 277 VAC, 30,000 cycles
		8 A, 30 VDC, 30,000 cycles
	General use	8 A, 120 VAC, 30,000 cycles
		8 A, 277 VAC, 30,000 cycles

- Note:
1. The rated values approved by each of the safety standards may be different from the performance characteristics individually defined in this catalog.
 2. In the interest of product improvement, specifications are subject to change without notice.

Precautions

■ HANDLING

- To preserve performance, do not drop or otherwise subject the G7J relay to shock.
- The case is not designated to be removed during normal handling and operation. Doing so may affect performance.
- Use the power relay in a dry environment free from excessive dust, SO₂, H₂S, or organic gas.
- Do not allow a voltage greater than the maximum allowable coil voltage to be applied continuously.
- Do not use the relay outside of specified voltages and currents.
- Do not allow the ambient operation temperature to exceed the specified limit.

■ INSTALLATION

Although there are not specific limits on the installation site, it should be as dry and dust-free as possible.

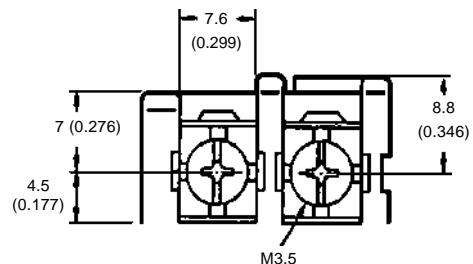
PCB terminal-equipped relays weigh approximately 140 g. Be sure that the PCB is strong enough to support them. OMRON recommends dual-side through-hole PCBs to reduce solder cracking from heat stress.

■ CLEANING PCB TERMINALS

PCB terminals have semi-sealed construction which prevents flux from penetrating into the relay base housing due to capillary action. This type of relay cannot be immersed for cleaning.

■ CONNECTION

Refer to the diagram below when connecting a wire to the screw terminals on G7J.



Allow suitable slack on leads when wiring, and do not subject the terminals to excessive force. Maximum tightening torque is 10 kgf-cm (72.50 ft-lbs).

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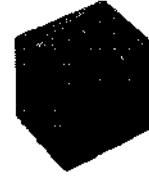
Omron Europe B.V. EMA-ISD, tel:+31 23 5681390, fax:+31 23 5681397, <http://www.eu.omron.com/ema>

AZ2200

30 AMP MINIATURE POWER RELAY

FEATURES

- Quick-connect leads for contacts
- 1 Form A, B and C contacts available
- AC and DC coils available
- Epoxy sealed versions available
- UL Class F (155°C) standard
- UL, CUR file E44211
- VDE 40027037 (DC coil only)



CONTACTS

Arrangement	SPST (1 Form A, or B) SPDT (1 Form C)
Ratings	Resistive load: Max. switched power: 840 W or 8310 VA Max. switched current: 30 A (Form A) 15 A (Form B) Max. switched voltage: 277 VAC, 28 VDC
UL, CUR	1 Form A 30 A at 277 VAC, General Use [1][2] 28 A at 277 VAC, General Use, 100k cycles [1] 2 Hp at 250 VAC [1][2] 1 HP at 125 VAC [1][2] 30 A at 28 VDC [1] 20/60 (FLA/LRA) at 277 VAC 30k cycles [1]
VDE	1 Form B 15 A at 277 VAC, General Use [1] 10 A at 28 VDC [1] 0.5 HP at 250 VAC [1] 0.25 HP at 125 VAC [1] 10/33 (FLA/LRA) at 277 VAC 30k cycles [1]
VDE	1 Form C 30/20 A (N.O./N.C.) at 277 VAC, General Use [1][2] 20/10 A (N.O./N.C.) at 28 VDC [1] 2/0.5 HP (N.O./N.C.) at 250 VAC [1][2] 1/0.25 HP (N.O./N.C.) at 125 VAC [1][2] 20/60 (FLA/LRA) at 277 VAC 30k cycles N.O. [1] 10/33 (FLA/LRA) at 277 VAC 30k cycles N.C. [1]
VDE	Contact factory for ratings.
Material	Silver cadmium oxide [1], silver tin oxide [2]
Resistance	< 50 milliohms initially (24 V, 1 A voltage drop method)

COIL

Power	
At Pickup Voltage (typical)	DC: 500 mW AC: 1.4 VA
Max. Continuous Dissipation	DC: 1.7 W at 20°C AC: 2.7 VA at 20°C
Max. Temperature	155°C (311°F)

GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 ⁷ 1 x 10 ⁵ at 30 A 120 VAC Res. N.O.
Operate Time	15 msec max. at nominal coil voltage
Release Time	10 msec max. at nominal coil voltage (without suppression)
Dielectric Strength (at sea level for 1 min.)	1500 Vrms contact to contact 2500 Vrms contact to coil
Insulation Resistance	1000 megohms min. at 20°C, 500 VDC 50% RH
Dropout	DC: > 10% of nominal coil voltage AC: > 20% of nominal coil voltage
Ambient Temperature Operating Storage	-55°C (-67°F) to 85°C (185°F) -55°C (-67°F) to 155°C (311°F)
Vibration	0.062" DA at 10–55 Hz
Shock	10 g
Enclosure	P.B.T. polyester
Terminals	Tinned copper alloy, P.C., Quick Connects Note: Allow suitable slack on leads when wiring, and do not subject the terminals to excessive force.
Max. Solder Temp.	270°C (518°F)
Max. Solder Time	5 seconds
Max. Solvent Temp.	80°C (176°F)
Max. Immersion Time	30 seconds
Weight	36 grams

NOTES

1. All values at 20°C (68°F).
2. Relay may pull in with less than "Must Operate" value.
3. Specifications subject to change without notice.

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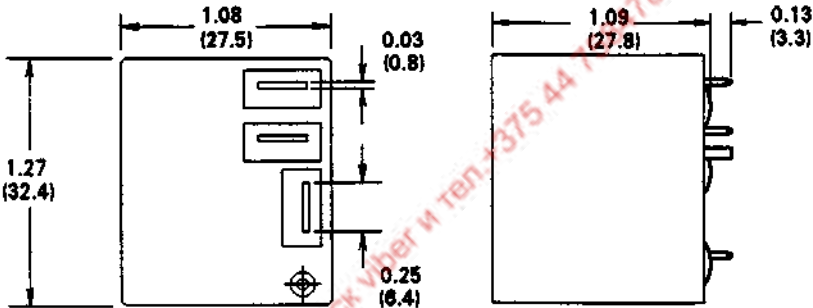
AZ2200

RELAY ORDERING DATA

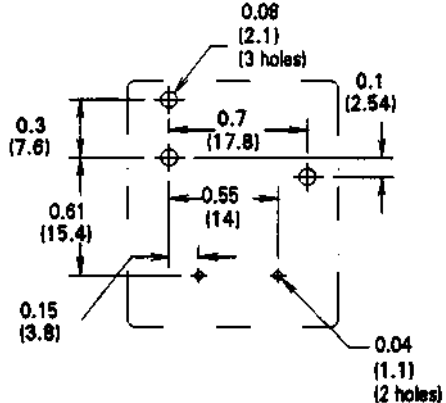
COIL SPECIFICATIONS – DC Coil					ORDER NUMBER*
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Nominal Current mA $\pm 10\%$	Coil Resistance $\pm 10\%$	
5	3.75	6.4	185	27	AZ2200-1A-5DF
6	4.50	7.8	150	40	AZ2200-1A-6DF
9	6.75	12.2	93	97	AZ2200-1A-9DF
12	9.01	15.4	77	155	AZ2200-1A-12DF
15	11.3	19.8	59	256	AZ2200-1A-15DF
18	13.5	24.1	47	380	AZ2200-1A-18DF
24	18.0	32.0	36	660	AZ2200-1A-24DF
48	36.0	62.6	19	2,560	AZ2200-1A-48DF
COIL SPECIFICATIONS – AC Coil 50/60 Hz					ORDER NUMBER*
Nominal Coil VAC	Must Operate VAC	Max. Continuous VAC	Nominal Coil Power VA	Coil Resistance $\pm 10\%$	
12	10.2	13.8	2.3	25	AZ2200-1A-12AF
24	20.4	27.6	2.1	100	AZ2200-1A-24AF
120	102.0	138.0	2.3	2,500	AZ2200-1A-120AF
208	176.8	239.0	2.2	11,000	AZ2200-1A-208AF
220/240	187.0	276.0	2.2/2.6	13,490	AZ2200-1A-240AF
277	235.4	318.5	2.2	15,000	AZ2200-1A-277AF

*Substitute "-1B" or "-1C" in place of "-1A" for 1 Form B or 1 Form C respectively. For silver tin oxide contacts substitute "-1AE" or "-1CE" in place of "-1A" or "-1C." Add "T" to "-1A", "-1AE", "-1B", "-1C" or "-1CE" for extended life contacts. Substitute "DEF" or "AEF" in place of "DF" or "AF" for epoxy sealed version.

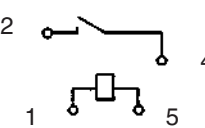
MECHANICAL DATA



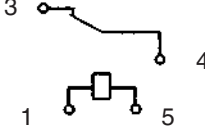
PC Board Layout



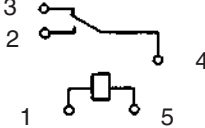
Wiring Diagram



Form A




Form B



Form C

Bottom View



Dimensions in inches with metric equivalents in parentheses. Tolerance: $\pm .010$ "

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AZ2290

30 AMP MINIATURE POWER RELAY

FEATURES

- Quick-connect leads for contacts
- 1 Form A, B and C contacts available
- AC and DC coils available
- Epoxy sealed versions available
- UL Class F (155°C) standard
- UL, CUR file E44211



CONTACTS

Arrangement	SPST (1 Form A, or B) SPDT (1 Form C)
Ratings	Resistive load: Max. switched power: 560 W or 8310 VA Max. switched current: 30 A (Form A) 15 A (Form B) Max. switched voltage: 277 VAC, 28 VDC
UL, CUR	1 Form A 30 A at 277 VAC, General Use, 30k cycles 2 Hp at 250 VAC 1 HP at 125 VAC 30 A at 28 VDC 20/60 (FLA/LRA) at 277 VAC 30k cycles 1 Form B 15 A at 277 VAC, General Use 10 A at 28 VDC 0.5 HP at 250 VAC .25 HP at 125 VAC 10 FLA at 277 VAC 30k cycles 33 LRA at 277 VAC 30k cycles 1 Form C 30/20 A (N.O./N.C.) at 277 VAC, General Use 20/10 A (N.O./N.C.) at 28 VDC 2/0.5 HP (N.O./N.C.) at 250 VAC 1/.25 HP (N.O./N.C.) at 125 VAC 20/10 FLA (N.O./N.C.) at 277 VAC 30k cycles 60/33 LRA (N.O./N.C.) at 277 VAC 30k cycles
Material	Silver cadmium oxide
Resistance	< 50 milliohms initially (24 V, 1 A voltage drop method)

COIL

Power At Pickup Voltage (typical)	DC: 500 mW AC: 1.4 VA
Max. Continuous Dissipation	DC: 1.7 W at 20°C AC: 2.7 VA at 20°C
Max. Temperature	155°C (311°F)

GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 ⁷ 1 x 10 ⁵ at 30 A 120 VAC Res. N.O.
Operate Time	15 msec max. at nominal coil voltage
Release Time	10 msec max. at nominal coil voltage (without suppression)
Dielectric Strength (at sea level for 1 min.)	1500 Vrms contact to contact 2500 Vrms contact to coil
Insulation Resistance	1000 megohms min. at 20°C, 500 VDC 50% RH
Dropout	DC: > 10% of nominal coil voltage AC: > 20% of nominal coil voltage
Ambient Temperature Operating Storage	-55°C (-67°F) to 85°C (185°F) -55°C (-67°F) to 155°C (311°F)
Vibration	0.062" DA at 10–55 Hz
Shock	10 g
Enclosure	P.B.T. polyester
Terminals	Tinned copper alloy, P.C., Quick Connects Note: Allow suitable slack on leads when wiring, and do not subject the terminals to excessive force.
Max. Solder Temp.	270°C (518°F)
Max. Solder Time	5 seconds
Max. Solvent Temp.	80°C (176°F)
Max. Immersion Time	30 seconds
Weight	36 grams

NOTES

1. All values at 20°C (68°F).
2. Relay may pull in with less than "Must Operate" value.
3. Specifications subject to change without notice.



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RELAY ORDERING DATA

COIL SPECIFICATIONS – DC Coil					ORDER NUMBER*
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Nominal Current mA $\pm 10\%$	Coil Resistance $\pm 10\%$	
5	3.75	6.4	185	27	AZ2290-1A-5DF
6	4.5	7.8	150	40	AZ2290-1A-6DF
9	6.75	12.2	93	97	AZ2290-1A-9DF
12	9.01	15.4	77	155	AZ2290-1A-12DF
15	11.3	19.8	59	256	AZ2290-1A-15DF
18	13.5	24.1	47	380	AZ2290-1A-18DF
24	18.0	32.0	36	660	AZ2290-1A-24DF
48	36.0	62.6	19	2,560	AZ2290-1A-48DF
COIL SPECIFICATIONS – AC Coil 50/60 Hz					ORDER NUMBER*
Nominal Coil VAC	Must Operate VAC	Max. Continuous VAC	Nominal Coil Power VA	Coil Resistance $\pm 10\%$	
12	10.2	13.8	2.3	25	AZ2290-1A-12AF
24	20.4	27.6	2.1	100	AZ2290-1A-24AF
120	102.0	138.0	2.3	2,500	AZ2290-1A-120AF
208	176.8	276.0	2.2	11,000	AZ2290-1A-208AF
220/240	187.0	276.0	2.2/2.6	13,490	AZ2290-1A-240AF
277	235.4	318.5	2.2	15,000	AZ2290-1A-277AF

*Add suffix "E" for epoxy sealed version. Substitute "1B" or "1C" for 1 form B or 1 form C. Add "T" to "-1A", "-1B" or "-1C" for extended life contacts.

MECHANICAL DATA

PC Board Layout

WIRING DIAGRAM (Top View)

1 FORM A

1 FORM B

1 FORM C

Dimensions in inches with metric equivalents in parentheses. Tolerance: $\pm .010"$



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AZ2280

40 AMP MINIATURE POWER RELAY

FEATURES

- Quick-connect leads for contacts and coil
- 1 Form A, B and C contacts available
- AC and DC coils available
- Epoxy sealed IP67 approved versions available
- UL Class F (155°C) standard
- UL, CUR file E44211
- VDE 40027037 (DC coil only)



CONTACTS

Arrangement	SPST (1 Form A, or B) SPDT (1 Form C)
Ratings	Resistive load: Max. switched power: 840W or 11,080VA Max. switched current: 40A (Form A), 15A (Form B), 20A (Form C) Max. switched voltage: 277VAC, 28VDC
UL, CUR	1 Form A 40A at 277VAC, General Use [1][2] 28A at 277VAC, General Use, 100k cycles [1] 2Hp at 250VAC [1][2] 1HP at 125VAC [1][2] 30A at 28VDC [1] 20/60 (FLA/LRA) at 277VAC 30k cycles [1] 1 Form B 15A at 277VAC, General Use [1] 10A at 28VDC [1] 0.5HP at 250VAC [1] 0.25HP at 125VAC [1] 10/33 (FLA/LRA) at 277VAC 30k cycles [1] 1 Form C 30/20A (N.O./N.C.) at 277VAC, General Use [1][2] 20/10A (N.O./N.C.) at 28VDC[1] 2/0.5HP (N.O./N.C.) at 250VAC[1][2] 1/0.25HP (N.O./N.C.) at 125VAC[1][2] 20/60 (FLA/LRA) at 277VAC 30k cycles N.O. [1] 10/33 (FLA/LRA) at 277VAC 30k cycles N.C. [1]
VDE	Contact factory for ratings
Material	Silver cadmium oxide [1], silver tin oxide [2]
Resistance	< 50 milliohms initially (24V, 1A voltage drop method)

COIL

Power	
At Pickup Voltage (typical)	DC: 500mW AC: 1.4VA
Max. Continuous Dissipation	DC: 1.7W at 20°C (68°F) AC: 2.7VA at 20°C (68°F)
Temperature Rise	38°C (68°F)
Temperature	Max. 155°C (311°F)

GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 ⁷ 1 x 10 ⁵ at 28A, 277VAC Res. [N.O.]
Operate Time (max.)	15ms at nominal coil voltage
Release Time (max.)	10ms at nominal coil voltage (with no coil suppression)
Dielectric Strength (at sea level for 1 min.)	1500 Vrms contact to contact 2500 Vrms contact to coil
Insulation Resistance	1000 megohms min. at 500 VDC, 20°C 50% RH
Dropout	DC: Greater than 10% of nominal coil voltage AC: Greater than 20% of nominal coil voltage
Ambient Temperature Operating Storage	At nominal coil voltage -55°C (-67°F) to 85°C (185°F), [DC] -55°C (-67°F) to 60°C (140°F), [AC] -55°C (-67°F) to 155°C (311°F)
Vibration	0.062" DA at 10–55 Hz
Shock	10 g
Enclosure	P.B.T. polyester
Terminals	Tinned copper alloy, Quick Connects Note: Allow suitable slack on leads when wiring, and do not subject the terminals to excessive force.
Max. Solder Temp.	270°C (518°F)
Max. Solder Time	5 seconds
Max. Solvent Temp.	80°C (176°F)
Max. Immersion Time	30 seconds
Weight (approx.)	36 grams

NOTES

1. All values at 20°C (68°F).
2. Relay may pull in with less than "Must Operate" value.
3. Specifications subject to change without notice.

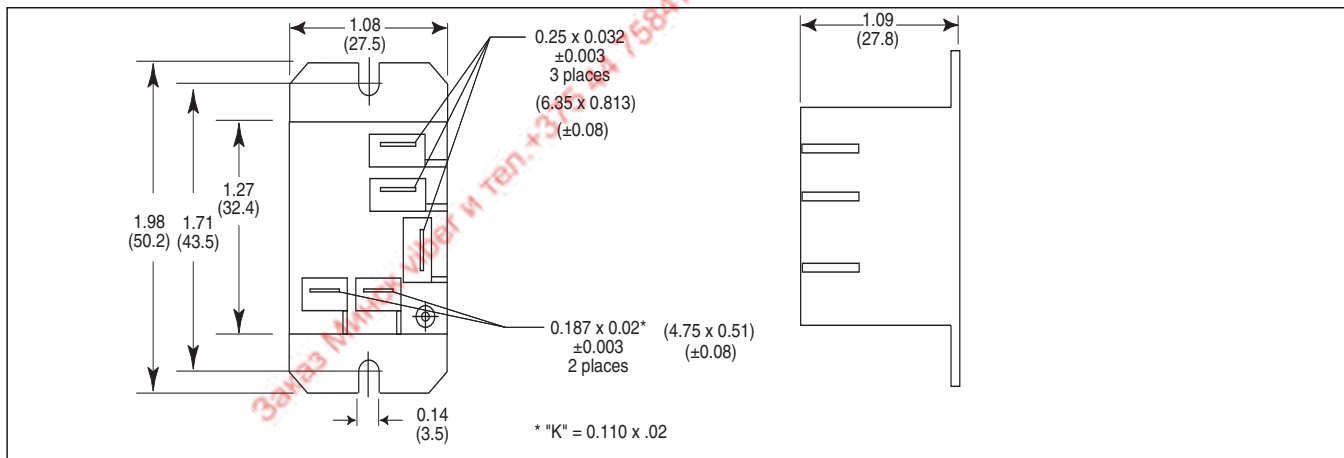
AZ2280

RELAY ORDERING DATA

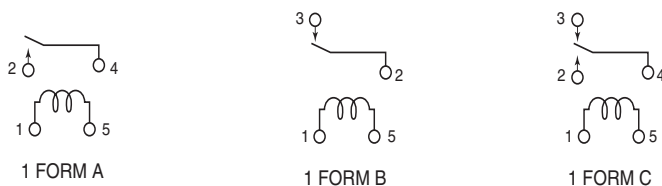
COIL SPECIFICATIONS – DC Coil					ORDER NUMBER*
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Nominal Current mA $\pm 10\%$	Coil Resistance $\pm 10\%$	
5	3.75	6.4	185	27	AZ2280-1A-5DF
6	4.50	7.8	150	40	AZ2280-1A-6DF
9	6.75	12.2	93	97	AZ2280-1A-9DF
12	9.00	15.4	77	155	AZ2280-1A-12DF
15	11.25	19.8	59	256	AZ2280-1A-15DF
18	13.5	24.1	47	380	AZ2280-1A-18DF
24	18.00	32.0	36	660	AZ2280-1A-24DF
48	36.00	62.6	19	2560	AZ2280-1A-48DF
110	82.5	146.6	8.2	13450	AZ2280-1A-110DF
COIL SPECIFICATIONS – AC Coil 50/60 Hz					ORDER NUMBER*
Nominal Coil VAC	Must Operate VAC	Max. Continuous VAC	Nominal Coil Power VA	Coil Resistance $\pm 10\%$	
12	10.2	13.8	2.3	25	AZ2280-1A-12AF
24	20.4	27.6	2.1	100	AZ2280-1A-24AF
120	102.0	138.0	2.3	2,500	AZ2280-1A-120AF
208	176.8	239.0	2.2	11,000	AZ2280-1A-208AF
220/240	187.0	276.0	2.2/2.6	13,490	AZ2280-1A-240AF
277	235.4	318.5	2.2	15,000	AZ2280-1A-277AF

*Substitute "-1B" or "-1C" in place of "-1A" for 1 Form B or 1 Form C respectively. For silver tin oxide contacts substitute "-1AE" or "-1CE" in place of "-1A" or "-1C." Add "T" to "-1A", "-1AE", "-1B", "-1C" or "-1CE" for extended life contacts. Substitute "DEF" or "AEF" in place of "DF" or "AF" for epoxy sealed version IP67 approved. For 0.110 coil terminals change "F" to "KF."

MECHANICAL DATA



WIRING DIAGRAM (Top View)



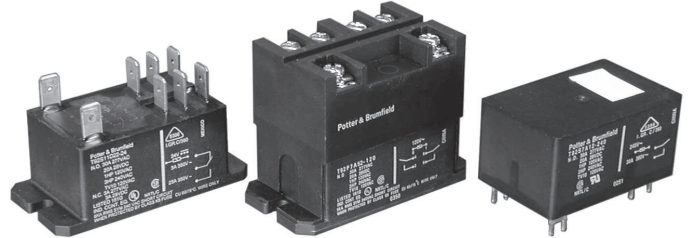
Dimensions in inches with metric equivalents in parentheses. Tolerance: $\pm .010$ "

T92 Series Two-pole 30A PCB or Panel Mount Relay

- 40A, 2 form A (NO) and 2 form C (CO) switching capability
- Designed to control compressor loads to 3.5 tons, 110LRA / 25.3FLA
- Meets requirements of UL 508 and UL 873 spacings - 8mm through air, 9.5mm over surface
- Meets requirements of VDE 8mm spacing, 4kV dielectric coil-to-contact
- Meets requirements of UL Class F construction
- UL approved for 600VAC switching (1.5HP)
- New screw terminal version (consult factory for availability, ratings)

Typical applications

HVAC, residential / commercial appliances, industrial controls.



Approvals

UL E58304 (Recognized and Listed); CSA LR48471; VDE 40019600
Technical data of approved types on request.

Contact Data

Contact arrangement	2 form A (NO); 2 form C (CO)
Rated voltage	277VAC
Max. switching voltage	600VAC
Rated current	30A NO; 3A NC
Limiting continuous current	40A NO; 3A NC
Limiting making current	40A NO; 3A NC
Limiting breaking current	40A NO; 3A NC
Contact material	AgSnInO, AgCdO
Min. recommended contact load	500ma (NO)/ 100ma (NC), 12VAC
Frequency of operation, with load	360hr
Operate/release time max., including bounce	25/25ms

Contact ratings 1)

Type	Load	Cycles
------	------	--------

UL508

AgCdO		
NO	40A, 277VAC, resistive	6x10 ³
NO	30A, 120/277VAC, resistive	100x10 ³
NO	10A, 600VAC, general purpose	100x10 ³
NO	1HP, 120VAC	100x10 ³
NO	3HP, 240VAC	1x10 ³
NO	1.5HP, 480 or 600VAC	100x10 ³
NO	110LRA/25.3FLA, 240VAC (DC coil only)	100x10 ³
NO	60LRA/14FLA, 240VAC (AC coil only)	100x10 ³
NO	3A, 240VAC, pilot duty	100x10 ³
NO	20A, 28VDC, resistive	100x10 ³
NO	TV10, 120VAC	100x10 ³
NC	3A, 277VAC	100x10 ³
NC	2A, 480VAC	100x10 ³
NC	1A, 600VAC	100x10 ³

AgSnInO

NO	30A, 120/277VAC, resistive (DC coil only)	200x10 ³
NO	30A, 120/277VAC, resistive (AC coil only)	100x10 ³
NO	20A, 480VAC, resistive	100x10 ³
NO	1.5HP, 120VAC, 2 pole making/breaking (Fig.1)	100x10 ³
NO	3HP, 240VAC, 3 phase (DC coil only)	100x10 ³
NO	3HP, 480VAC, 3 phase (DC coil only)	100x10 ³
NO	2HP, 600VAC, 3 phase (DC coil only)	100x10 ³

VDE

AgCdO, flange mount relays		
NO	20A, 400VAC	100x10 ³
NC	3A, 400VAC	30x10 ³
CO	20A NO / 3A NC, 400VAC	30x10 ³
AgCdO, PC mount relays		
NO	30A, 400VAC	100x10 ³
NC	3A, 400VAC	30x10 ³
CO	30A NO / 3A NC, 400VAC	30x10 ³

Contact ratings 1) (continued)

ARI 780-86 Endurance Test (section 6.6):

HVAC Definite Purpose Contactor Standard

Normally Open Contacts

Single Phase/Two Pole (Both poles together switching a single load)
110 LRA, 25.3 FLA, 200K operations (DC Coil)

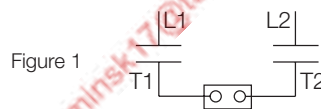


Figure 1

Single Phase Per Pole (Single load per pole)
110 LRA, 18 FLA, 200K operations (DC Coil).
60 LRA, 14 FLA, 200K operations (AC Coil).

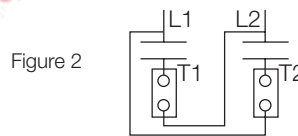


Figure 2

1) Contact ratings at 25°C (unless otherwise noted) with relay properly vented.
FLA, LRA ratings are compatible with 3.5 ton compressor applications.

Mechanical endurance	10x10 ⁶ ops.
----------------------	-------------------------

Coil Data

Coil voltage range	5 to 110VDC; 12 to 240VAC
Max. coil power	1.7W; 4.0VA
Max. coil temperature	155°C
Coil insulation system according UL	Class F

Coil versions, DC coil

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω±10%	Rated coil power W
6	6	4.5	0.6	22	1.7
9	9	6.75	0.9	48	1.7
12	12	9	1.2	86	1.7
18	18	13.5	1.8	197	1.7
24	24	18	2.4	350	1.7
48	48	36	4.8	1390	1.7
110	110	82.5	11	7255	1.7

Coil versions, AC coil

Coil code	Rated voltage VAC	Frequency Hz	Operate voltage VAC, 60Hz	Release voltage VAC, 60Hz	Coil resistance Ω±10%	Rated coil power VA
12	12	60	9.6	1.2	9.1	4
24	24	60	19.2	2.4	36.6	4
120	110/120	50/60	96	12	950	4
240	220/240	50/60	192	24	3800	4
277	250/277	50/60	222	28	5485	4

All figures are given for coil without preenergization, at ambient temperature +23°C.

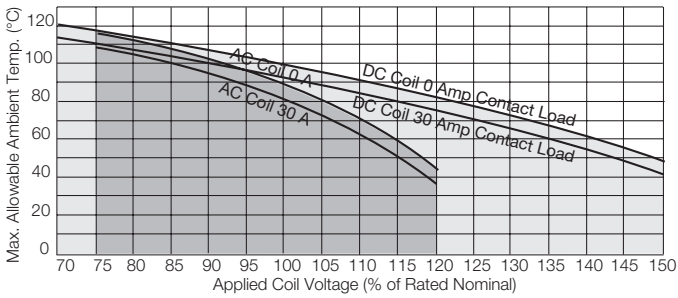
T92 Series Two-pole 30A PCB or Panel Mount Relay (Continued)

Coil Data (continued)

Ambient temperature vs. coil voltage

Assumptions:

1. Thermal resistance = 35°C per Watt (DC only.)
2. Still air.
3. Nominal coil resistance.
4. Max. mean coil temperature = 155°C (change of resistance method).
5. Coil temperature rise due to load = 6.3°C @ 30 amps.
6. Curves are based on 1.7W at 25°C (DC only.).



Insulation Data

Initial dielectric strength	
between open contacts	1500V _{rms}
between contact and coil	4000V _{rms}
between adjacent contact	2000V _{rms}
Initial surge withstand voltage	
between contact and coil	6kV
Initial insulation resistance	
between insulated elements	1x10 ⁹ Ω
Clearance/creepage	
between contact and coil	8mm clearance/9.5mm creepage

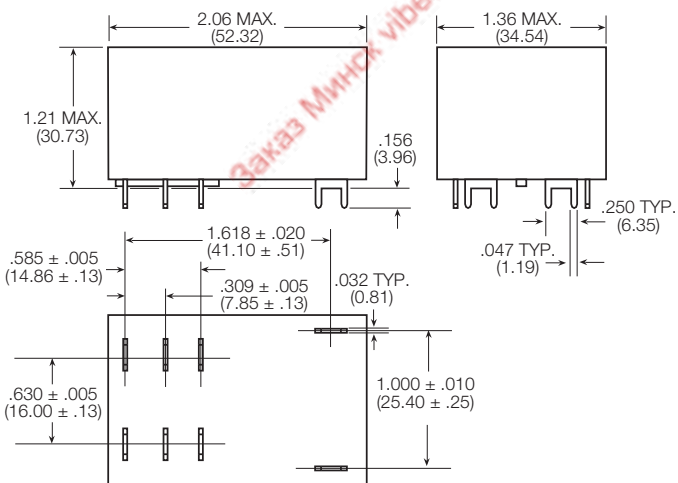
Other Data

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customersupport/rohssupportcenter

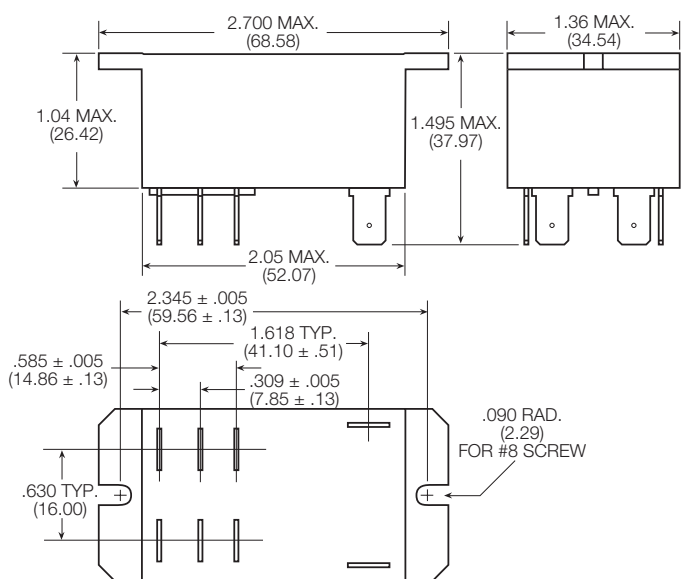
Ambient temperature	
DC coil	-55°C to 85°C
AC coil	-55°C to 65°C
Category of environmental protection	IEC 61810
	RTI - dust protected, RTII - flux proof, RTIII - wash tight
Vibration resistance (functional)	1.65mm max excursions, 10-55 Hz
Shock resistance (functional)	10g for 11msec
Shock resistance (destructive)	100g
Terminal type	PCB-tht or quick connect
Weight	86g
Resistance to soldering heat THT	
IEC 60068-2-20	250°C
Packaging/unit	tray/30 pcs., box/120 pcs.

Dimensions

T92 – Mounting and termination code 1



T92 – Mounting and termination code 2, 3 and 4



T92 Series Two-pole 30A PCB or Panel Mount Relay (Continued)

Product Code	Enclosure	Contacts	Coil	Mounting	Contact Material	Coil	Part Number
T92P7A22-24	Plastic dust cover	2 form A, 2 NO	AC	Panel mount + quick connect	AgCdO	24 VAC	6-1393211-0
T92P7A22-120						120 VAC	5-1393211-7
T92P7A22-240						240 VAC	6-1393211-2
T92P7A22-277						277 VAC	6-1393211-3
T92P7A24-240				Panel mount + screw terminals	AgSnOInO	240 VAC	3-1423008-3
T92P7A52-120						120 VAC	1423008-8
T92P7A52-240						240 VAC	1-1423008-2
T92P7D12-12						12 VDC	6-1393211-5
T92P7D12-24			DC	PCB terminals		24 VDC	6-1393211-6
T92P7D22-12						12VDC	6-1393211-9
T92P7D22-24						24 VDC	7-1393211-1
T92P7D22-48						48 VDC	7-1393211-2
T92P7D24-12					AgSnOInO	12VDC	2-1423008-2
T92P7D24-24						24 VDC	1423008-9
T92P7D42-24						24 VDC	7-1393211-5
T92P7D52-12						12 VDC	1-1423008-0
T92P7D52-24				Panel mount + screw terminals	AgCdO	24 VDC	1423967-1
T92P11A12-120						120 VAC	3-1393211-8
T92P11A22-12						12 VAC	3-1393211-9
T92P11A22-24						24 VAC	4-1393211-3
T92P11A22-120						120 VAC	4-1393211-0
T92P11A22-240						240 VAC	4-1393211-4
T92P11A22-277						277 VAC	4-1393211-6
T92P11A24-240						240 VAC	3-1423008-7
T92P11A42-120					AgSnOInO	120VAC	4-1393211-8
T92P11D12-12						12 VDC	5-1393211-0
T92P11D22-12						12 VDC	5-1393211-3
T92P11D22-24						24 VDC	5-1393211-4
T92P11D24-12			DC	PCB terminals		12 VDC	3-1423008-5
T92P11D24-24						24 VDC	3-1423008-6
T92S7A12-24						24 VAC	9-1393211-8
T92S7A12-120						120 VAC	9-1393211-7
T92S7A12-240	Wash tight	2 form A, 2 NO	AC	PCB terminals	AgCdO	240 VAC	9-1393211-9
T92S7A22-24						24 VAC	1393212-4
T92S7A22-120						120 VAC	1393212-2
T92S7A22-240						240 VAC	1393212-5
T92S7D12-12	Top sealed			Panel mount + quick connect		12 VDC	1393212-8
T92S7D12-24						24 VDC	1-1393212-0
T92S7D12-48						48 VDC	1-1393212-1
T92S7D12-110						110 VDC	1393212-7
T92S7D14-24	Wash tight		DC	PCB terminals	AgSnOInO	24 VDC	1-1423008-8
T92S7D22-12						12 VDC	1-1393212-4
T92S7D22-18						18 VDC	1-1393212-5
T92S7D22-24						24 VDC	1-1393212-7
T92S7D22-110	Top sealed					110 VDC	1-1393212-3
T92S11A12-24						24 VAC	8-1393211-1
T92S11A12-120						120 VAC	8-1393211-0
T92S11A12-240						240 VAC	8-1393211-2
T92S11A22-12	Wash tight			Panel mount + quick connect		12 VAC	8-1393211-3
T92S11A22-24						24 VAC	8-1393211-6
T92S11A22-120						120 VAC	8-1393211-4
T92S11A22-240						240 VAC	8-1393211-7
T92S11D12-12	Top sealed		DC	PCB terminals		12 VDC	8-1393211-9
T92S11D12-24						24 VDC	9-1393211-0
T92S11D12-48						48 VDC	9-1393211-1
T92S11D12-110						110 VDC	8-1393211-8
T92S11D22-12	Wash tight			Panel mount + quick connect		12 VDC	9-1393211-3
T92S11D22-24						24 VDC	9-1393211-4

NT90TP (T92)



32.5(50.2)×27.5×20



32.5(50.2)×27.5×28.2



UL US E174722

R50126373

Features

- Small size, lightweight.
- Low coil power consumption, heavy contact load.
- Strong anti-shock and anti-vibration, high reliability, long life.
- Suitable for automobile, machine, electronic equipment, air conditioner and household appliances applications.

Ordering Information

<u>N90TP</u>	<u>H</u>	<u>L</u>	<u>A</u>	<u>D</u>	<u>DC12V</u>	<u>C</u>	<u>B</u>	<u>0.9</u>
1	2	3	4	5	6	7	8	9
1 Part number: NT90TP (T92) NT90TP ₂	2 Load: H:30A; N:40A	3 High: NIL: Standard; L: Low profile type	4 Contact arrangement: A:1A; B:1B; C:1C	5 Enclosure: D: Dust cover; E: Covered	6 Coil rated Voltage(V): AC:12,24, 110,120,220,240,277 DC:3,5,6,9,12,15,18,24,48,110	7 Contact material: C: AgCdO; S: AgSnO ₂	8 Resist heat class: B:130℃ F:155℃	9 Coil power consumption: 0.6:0.6W; 0.9:0.9W NIL:2VA

Contact Data

Contact Arrangement	1A (SPSTNO) 1B (SPSTNC) 1C (SPDT(B-M))	
Contact Material	AgCdO AgSnO ₂	
Contact Rating (resistive)	NO:30A/240VAC,14VDC; NC:20A/240VAC;30A/14VDC NO:40A/240VAC,30VDC; NC:30A/240VAC,30VDC (0.9W) NO:30A/277VAC;NC:20A/277VAC Motor load: NO:2HP 250VAC ; NC:1.5HP 250VAC Lamp load: TV-5 5A/280VAC(Ballast)	
Max. Switching Power	1200W 7200VA (10000VA)	
Max. Switching Voltage	110VDC 300VAC Max. Switching Current:40A	
Contact Resistance or Voltage drop	≤30mΩ	
Operation life	Electrical	10 ⁵ Item 4.30 of IEC 61810-7
	Mechanical	10 ⁷ Item 4.31 of IEC 61810-7

Coil Parameter

Dash numbers	Rated voltage VAC		Rated current mA	Coil resistance ±10%	Pick up voltage VAC(max) (75%of rated voltage)	Release voltage VAC(min) (30%of rated voltage)	Coil power	Operate Time ms	Release Time ms
	Rated	Max							
012AC	12	15.6	166	27	9.0	3.6	2VA	—	—
024AC	24	31.2	83	120	18.0	7.2			
110AC	110	143	18.1	2360	82.5	33.0			
120AC	120	156	16.6	3040	90.0	36.0			
220AC	220	286	9	13490	165.0	66.0			
240AC	240	312	8.3	15740	180.0	72.0			
277AC	277	360.1	7.2	20300	207.75	83.1			

CAUTION: 1. The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.
2. Pickup and release voltage are for test purposes only and are not to be used as design criteria.

Coil Parameter

DC Coil Parameter								
Dash numbers	Rated voltage VDC		Coil resistance $\Omega \pm 10\%$	Pick up voltage VDC(max) (75%of rated voltage)	Release voltage VDC(min) (10%of rated voltage)	Coil power W	Operate Time ms	Release Time ms
	Rated	Max						
003-900	3	3.9	10	2.25	0.3	0.9	≤ 15	≤ 10
005-900	5	6.5	28	3.75	0.5			
006-900	6	7.8	40	4.50	0.6			
009-900	9	11.7	90	6.75	0.9			
012-900	12	15.6	160	9.00	1.2			
015-900	15	19.5	250	10.25	1.5			
018-900	18	23.4	360	13.50	1.8			
024-900	24	31.2	640	18.00	2.4			
036-900	36	46.8	1440	27.00	3.6			
048-900	48	62.4	2560	36.00	4.8			
110-900	110	143	13445	82.50	11.0			
003-600	3	3.9	15	2.25	0.3	0.6	≤ 15	≤ 10
005-600	5	6.5	42	3.75	0.5			
006-600	6	7.8	60	4.50	0.6			
009-600	9	11.7	135	6.75	0.9			
012-600	12	15.6	240	9.00	1.2			
015-600	15	19.5	375	10.25	1.5			
018-600	18	23.4	540	13.50	1.8			
024-600	24	31.2	960	18.00	2.4			
048-600	48	62.4	3840	36.00	4.8			
110-600	110	143	20167	82.50	11.0			

CAUTION: 1.The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.
2.Pickup and release voltage are for test purposes only and are not to be used as design criteria.

Operation condition

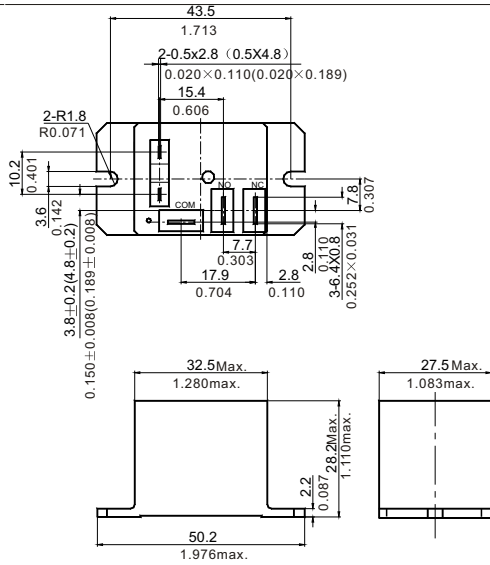
Insulation Resistance	1000M Ω min (at 500VDC)	Item 7 of IEC 60255-5
Dielectric Strength		
Between contacts	50Hz 1500V	Item 6 of IEC 60255-5
Between contact and coil	50Hz 2500V	Item 6 of IEC 60255-5
Shock resistance	200m/s ² 11ms	IEC 68-2-27 Test Ea
Vibration resistance	10Hz~55Hz double amplitude 1.5mm	IEC 68-2-6 Test Fc
Terminals strength	10N	IEC 68-2-21 Test Ua2
Solderability	260 $^{\circ}$ C \pm 5 $^{\circ}$ C 5s \pm 0.5s	IEC 68-2-20 Test Ta method 1
Ambient Temperature	-55 ~100 $^{\circ}$ C -55 $^{\circ}$ C~125 $^{\circ}$ C	
Relative Humidity	85% (at 40 $^{\circ}$ C)	IEC 68-2-3 Test Ca
Mass	35g (Low profile type) 37g	

Safety approvals

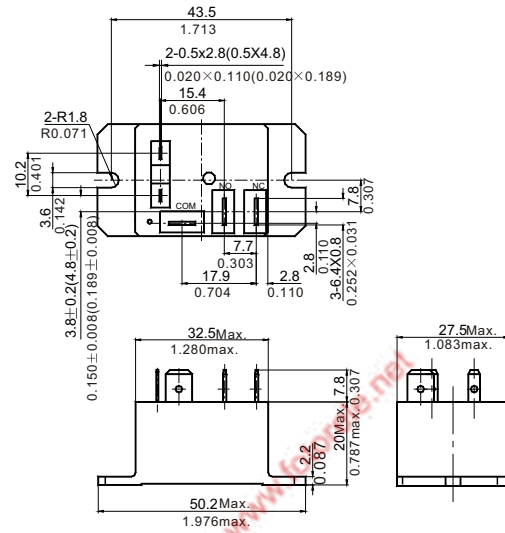
Safety approval	UL&CUR	TüV	CQC
Load	NO:40A/240VAC 30A/277VAC NC:30A/240VAC,30VDC 20A/277VAC Ballast:5A/280VAC TV-5 HP:NO:2 HP 250VAC A:1HP/16AFLA/120VAC 2HP/12AFLA/240VAC NC:1 $\frac{1}{2}$ HP 250VAC B: 30LRA/10AFLA/120VAC 30LRA/10AFLA/240VAC	NO:40A/240VAC 14VDC 30A/277VAC NC:30A/240VAC 14VDC 20A/277VAC	NO:30A/240VAC NC:20A/240VAC

Dimensions

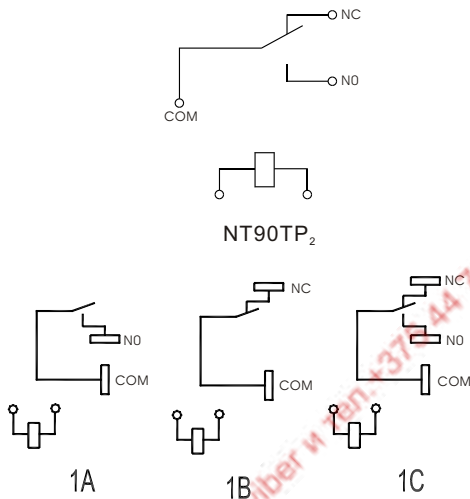
mm / inch



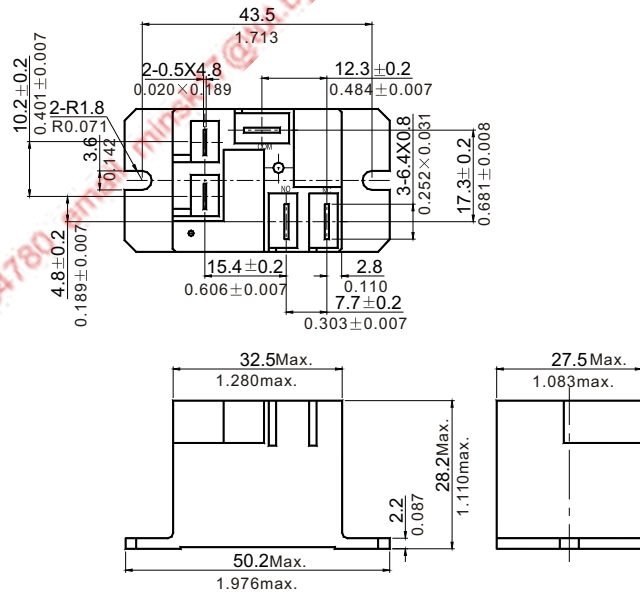
NT90TP



NT90TPL



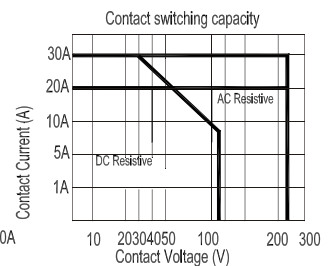
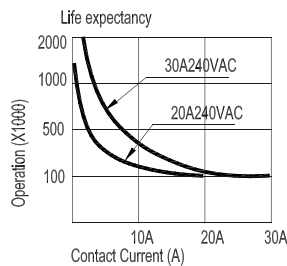
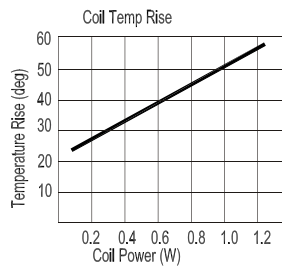
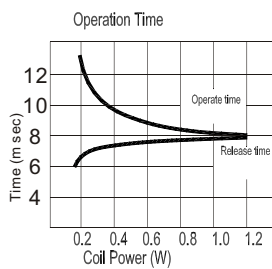
NT90TP
Wiring diagram

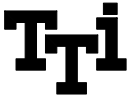


NT90TP₂
Dimensions

NOTES 1). Dimensions are in millimeters.
2). Inch equivalents are given for general information only.

Reference Data

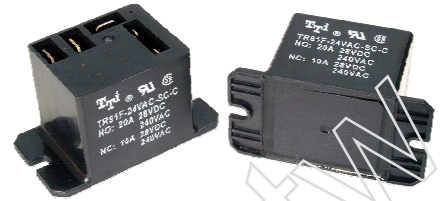




TR91

MAIN FEATURES

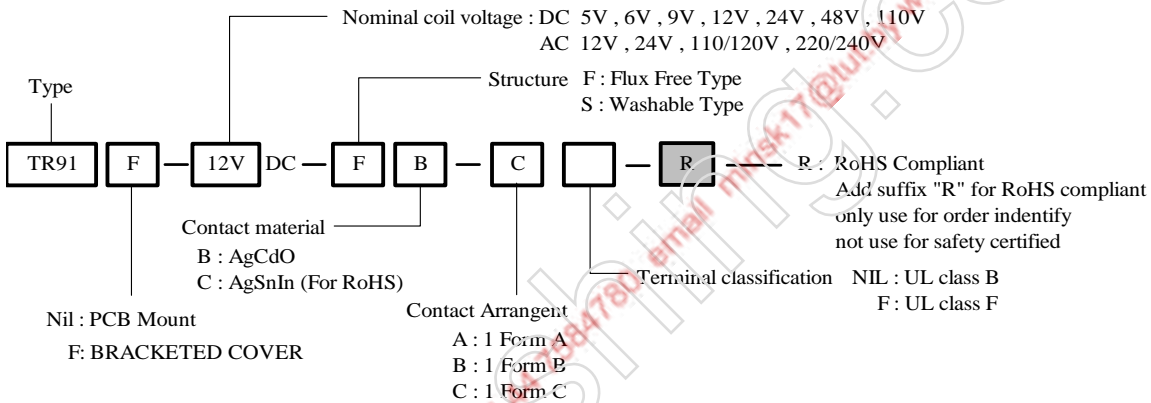
- Up to 30A switching in SPST and 20A switching in SPDT arrangements.
- Available as an open-frame relay, with a snap-on dust cover or with an immersion cleanable, plastic sealed case.
- Meets UL508 and UL873 spacing requirements.
- Available with UL class B & class F Insulation materials.
- UL & cUL recognized.



APPLICATIONS

- Used for power switching, Electrical Heater, ventilator, Air conditioning, Refrigerating, Automobile and House-hold Appliance.

ORDERING INFORMATION

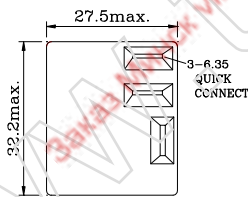


DIMENSION (unit:mm)

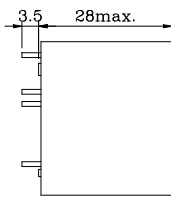
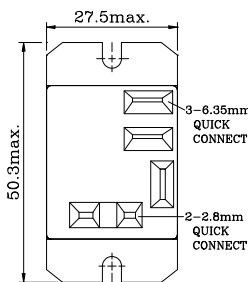
DRILLING (unit:mm)

WIRING DIAGRAM

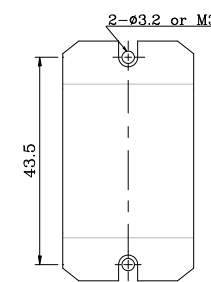
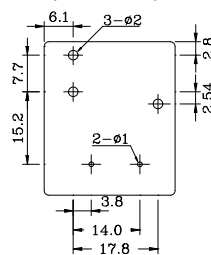
PCB Mount Type



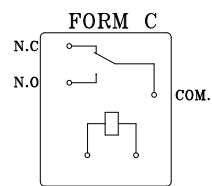
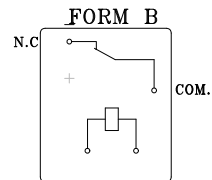
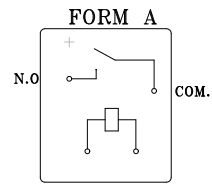
Bracketed Cover Type
Coil Terminal : 2.8mm



Mounting (mm)
(Bottom views)



Wiring Diagrams
(Bottom views)



COIL DATA CHART (AT20°C)

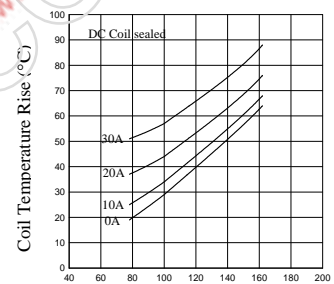
Coil Sensitivity	Coil Nominal Voltage	Nominal Current	Coil Resistance	Power Consumption	Pull-In Voltage	Drop-Out Voltage	Max-Allowable Voltage	
TR91	DC Type	Vdc	mA	$\Omega \pm 10\%$	W	Vdc	Vdc	
		5	185	28	abt. 0.9	75% Max.	10% Max.	110%
		6	150	40				
		9	93	90				
		12	77	160				
		24	36	640				
		48	19	2560				
	110	8	13445					
	AC Type	Vac	mA	$\Omega \pm 10\%$	VA	Vac	Vac	Vac
		12	167	27	abt. 2.0	75% Max.	30% Max.	110%
		24	83	120				
		110	19	2360				
		120	17	3040				
		220	9.5	13490				

CONTACT RATING

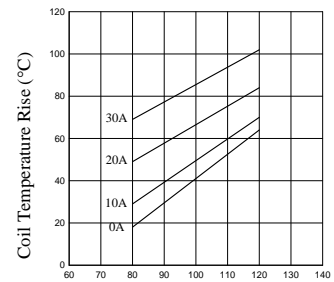
Item	Type	TR91		
		FORM A	FORM C	
			N/O	N/C
UL/CUR		40A 240VAC 2HP 250/277VAC	40A 240VAC 2HP 250/277VAC	30A 240VAC 30A 30VDC 1.5HP 250VAC
Switching Voltage (Max.)		250VAC / 30VDC		
Switching Voltage (Max.)		40A	40A	30A
Switching Power (Max.)		7200VA / 1100W	4800VA / 720W	2400VA / 360W

USEFUL CURVES

DC Coil Sealed



Coil Voltage (% of Nominal Voltage)



Coil Voltage (% of Nominal Voltage)

PERFORMANCE (at initial value)

Item	Type	TR91
Contact Resistance		100m Ω Max.
Operation Time		DC : 15msec Max., AC : 20msec Max.
Release Time		DC : 10msec Max., AC : 15msec Max.
Dielectric Strength	Between coil & contact Between contacts	1500VAC 50/60HZ (1 minute) 1500VAC
Insulation Resistance		1000 M Ω Min. (500VDC)
Max. ON/OFF Switching	Mechanically Electrically	300 operation/min 30 operation/min
Operating Ambient Temperature		-55°C to +85°C (operating) -55°C to +155°C (storage)
Operating Humidity		45 to 80% RH
Coil Temperature Rise		60 deg. Max.
Vibration	Endurance Error Operation	10 to 55Hz Double Amplitude 1.5mm 10 to 55Hz Double Amplitude 1.5mm
Shock	Endurance Error Operation	1000 m/sec (abt. 100g's) 100 m/sec (abt. 10g's)
Life Expectancy	Mechanically Electrically	10×10^6 10×10^4
Weight		abt. 33grs.
UL & cUL		E156406

This datasheet for reference and subject to change without notice. Please double check final specification with Tai-Shing.