/// BR930 Series - Electromechanical Signalling Relay

TY154/GRP09

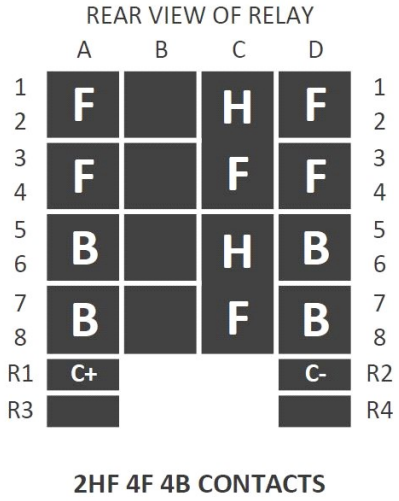
QBCA1 2HF4F4B 12V

AC immune DC biased contactor relay nominally to BR943.

Features

The TY154/GRP09 is a 2HF 4F 4B contactor relay for use in line circuits where the relay is designed to control the motor circuit of a point machine or other similar heavy duty applications.
Of compact modular plug-in design it has non-weld signaling contacts, weld-no-transfer heavy duty contacts and is equipped with a safety interlocking system (pin code) for insertion into mating plugboards.

Contact arrangement



2HF 4F 4B CONTACTS

General characteristics

PADS Reference	-
Pin code	S007 ABCKS
Contact arrangement	2HF 4F 4B
Coil configuration	Single wound single coil
Resistance of winding(s)	55Ω
Rating	12V DC
Weight	1.4 kg
Plugboard	TY081-001 PADS Ref 0085/002081 See plugboard datasheet for more information

Specific characteristics

AC Immunity Coil RMS voltage at 50 Hz frequency that can be applied without generating the closing of any of the front (N/O - Normally Open) contacts	AC immune to 1000V 50hz
DC Biasing Maximum supply which can be applied connected in reverse polarity and shall not result in the breaking of any back contact of the relay	Immune to 240VDC applied in the reverse sense.

Electrical characteristics

Operate value	Not specified in BR943
Full operate value	9.6V
Release value	1.8V
Full release value	1.0V
Operate time	Not specified in BR943
Release time	Not specified in BR943
Interrupt time	Not specified in BR943
Signalling contact pressure	28 g (1 oz) min

Wiring Requirements

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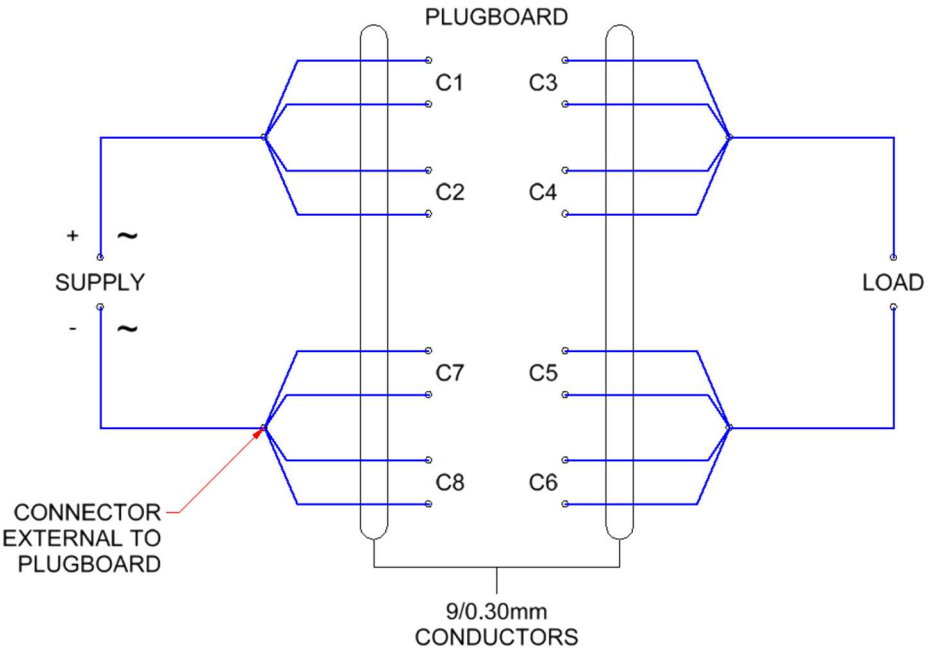
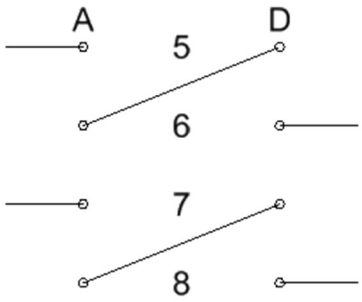


POLARITIES SHOWN **MUST** BE OBSERVED
WHEN USING A DC SUPPLY

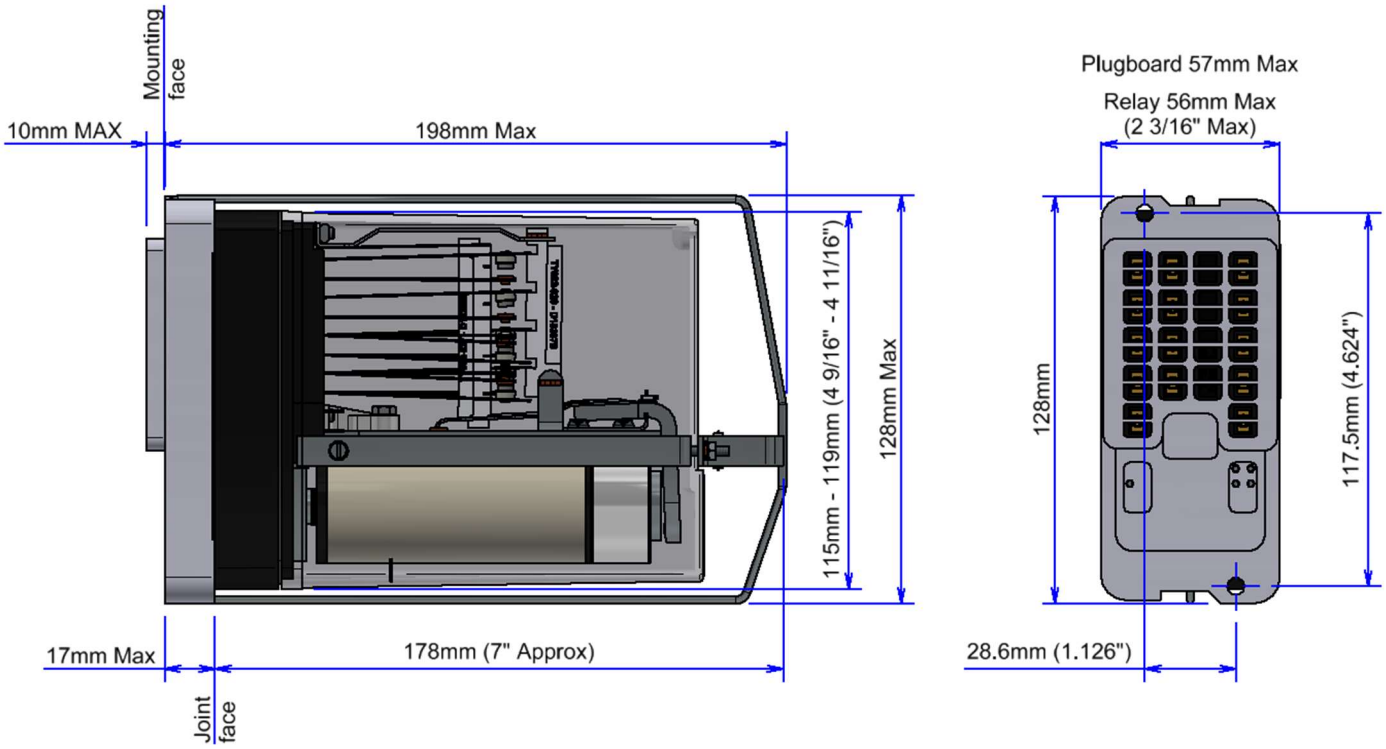


THIS ARRANGEMENT **MUST** BE USED
TO GIVE DETECTION OF A WELDED
HEAVY DUTY FRONT CONTACT

Outline drawing

AC immune DC biased contactor relay nominally to BR943

TY154/GRP09



Imperial dimensions in brackets are those specified in BR930

Dimensions illustration shows generic BR930 relay.

Note

The signalling contacts of BR930 relays are optimised to switch traditional signalling circuits consisting of the coils of other relays and incandescent lamps. Their contacts are non-weld, not weld-no-transfer. Heavy duty contacts are weld-no-transfer not non-weld. Signalling schemes using these relays must be designed to operate safely within these constraints. Heavy duty contacts and the related proving contacts must be wired as described in BR943 appendix C. Furthermore, it is the operators' responsibility to ensure compliance with the following:

General requirements of clause 5.2 of BR930 and clauses 8.1 and 8.2 of BR943

Circuits switched by signalling contacts with the requirements of clauses 1.2

Over 10 million Mors Smitt relays in use in rail transport applications worldwide!

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