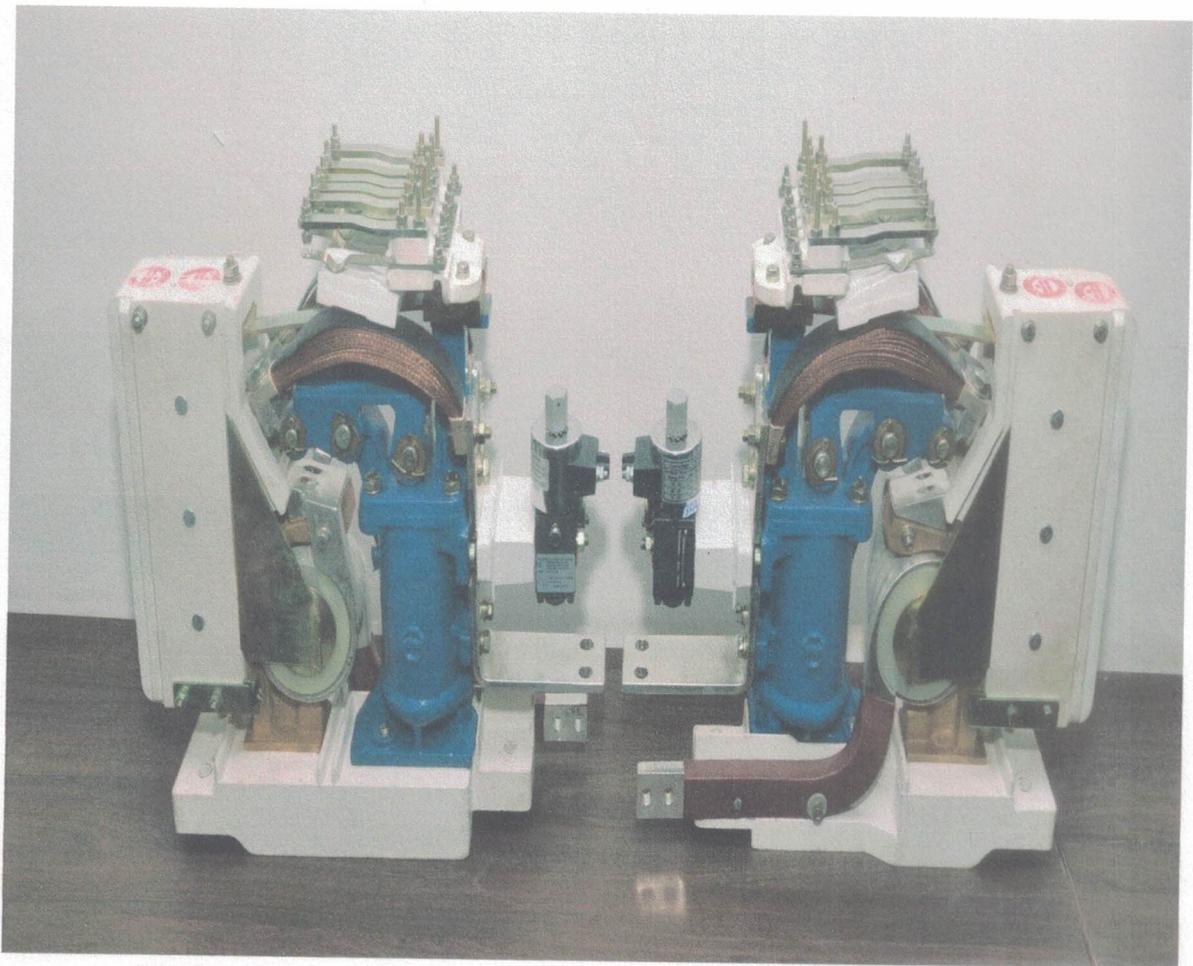


ELECTRO PNEUMATIC POWER CONTACTOR

INTRODUCTION

Electro pneumatic power contactor is used for opening and closing the electrical circuits. Nine numbers of such contactors are used for controlling the operation of traction motors. Whenever power is supplied to the coil of magnet valve, airflow to the cylinder of contactor causes the contactor to close. Current then flows through the main contacts to complete the electrical circuit. Similarly, whenever power is removed from the coil of the magnet valve, air pressure in the cylinder is released causing the contactor to open and break in the circuit.



ELECTRO PNEUMATIC POWER CONTACTOR

RATING AND DATA

Description : Electro-Pneumatic Power Contactor

RDSO Spec. No. MP.0.04.00.08 Rev-02 Aug 2018

RDSO Drg. No. SKDP No. 4135

DLW Drg. No. EL/PT/0630 (Alt No.: R4) & Part No. 12141008

NEE Drg. No. 4-05801030001-GA (Rev-00)

Continuous Current : 1390 Amps for Type 4-24PC2

Control Voltage : 74 VDC

Duty : Continuous

Insulation Level : 1500 V DC for Type 4-24PC2

Main Contacts:

Main Contact Gap : 15 to 17 mm

Wipe (Over Travel) : 25.4 to 28.6mm

Knuckling Spring Pressure

Initial : 4.5 to 6.3 kgf(Without Lever)

Final : 12.2 to 18.2 kgf

Auxiliary Interlocks:

Interlock Arrangement : 4 NO+2NC

Interlock Contact Gap : 2.4 to 3.95 mm

Interlock Contact Pressure : 0.500 to 0.900 kgf

Interlock Over Travel : 1.0 to 1.6 mm

Magnet Valve:

Magnet Valve type : 4-5027 MV-2 &SR3118V3-3 Rotex Type

Normal air pressure : 4.9Kg/cm²

Minimum air pressure : 3.85 Kg/cm²

Magnet Valve Coil Resistance at 20 °C : 526-594 Ohms

