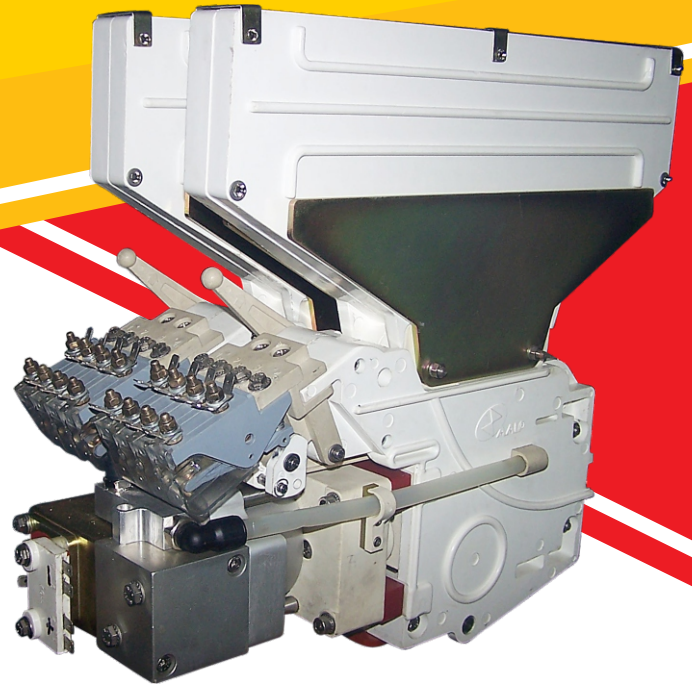




AAL[®]
Autometers Alliance Ltd

ELECTRO-PNEUMATIC CONTACTOR



Salient Features

- Used for Higher voltage upto 3000V and 600A AC/DC application. Having double pole normally open contacts.
- Compact and Space saving wall mounting.
- Low Maintenance and Reliable operations under extreme condition.
- Contact movement designed for self-cleaning action.
- Contacts are easily inspected and replaced.
- Independent of polarity.
- Arc Extinguisher helps to break down the arc voltage and to cool the arc effectively.
- Operating Coil designed for voltage tolerance of -30% to +25%.
- All non metallic components are of fire retardant self-extinguishing materials.
- Option of upto 8 (NO or NC) auxiliary contacts, customization possible.
- Sturdy structure and a long mechanical life (over 10 million operations).
- Supplementary air blast ensures short switching times throughout the entire range.

Electro pneumatic Contactor Manufactured by Autometers Alliance Limited is a double pole heavy duty contactor designed to be used on traction vehicles. In order to work efficiently both with high and low circuit in AC and DC circuits, the contactors are equipped with arc blow-out circuit. Additionally the exhaust air blast is utilized for extinguishing the arc.



Main Circuit

Number of poles, type of contact	Two, normally open mechanically coupled
Rated voltage U_N	Both poles in series 3000V
Max. service voltage	3600V
Frequency	50Hz
Rated current	600A
One hour current	630A
Short time current, 5 minute	800A
Peak breaking current	2400A
Peak breaking current at $1.2 U_N$ (L/R = 15ms)	2400A
Closing time	Approx. 100ms
Interrupting / Break time	Approx. 75ms
Weight	20.5 kg (Approx.)
Mounting	Contactors to be fitted only with arc chute on top
Mechanical operation switching rate	2 operations per sec.
Mechanical life	10 million operations
Operating Temperature	-40°C to +70°C
Standards	IEC 77, IEC158-1, IS11731(Part 1 & 2)

Control Circuit

Mechanism Construction	Electro-pneumatic with return springs
Operating pressure	0.4 to 1.0 MPa
Rated control voltage U_N	110V DC
Service voltage	0.7 to 1.25 U_N
Power consumption at nominal control voltage	8~20W (approx.)
Auxiliary Contacts	
Nature of contacts	8 (4NO & 4NC) can be customized
Rated voltage	220V
Rated current	20A
Max. closing current	50A

Application:

Used for traction vehicle equipments like Contactor Filter On / Off, Contactor filter Adaption, auxiliary equipments, traction converters, etc.



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