



AAL[®]
Autometers Alliance Ltd

ELECTROMAGNETIC CONTACTOR

- Used for Higher voltage, upto 3000V and 50AAC / DC application. Having single 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 4 (NO or NC) auxiliary contacts, customization possible.
- Sturdy structure and a long mechanical life (over 5 million operations).



Electromagnetic Contactor Manufactured by Autometers Alliance Limited is a single pole heavy duty contactor designed to be used on traction vehicles. In order to work efficiently both AC and DC circuits, the contactors are equipped with arc blow-out circuit.

Application:
Used for traction vehicle equipments like Discharging Resister,
Heating System, auxiliary equipments, traction converters, etc.

Main Circuit

Number of poles & nature of contact	Single pole normally open contact
Rated voltage	3000V DC
Permissible max. service voltage	4500V DC
Rated current	50A
One hour current	55A
Short time current (5 minute)	75A
Closing current limit	250A
Interrupting current limit (ohmic)	At 4500V DC : 80A At 3600V DC : 100A At 1800V DC : 150A At 3600V AC : 200A
Closing time	80-100 ms
Interrupting time	Without protective device : 8-12 ms
	With parallel connected varister to the coil : 14-20 ms
	With parallel connected diode to the coil : 100-200 ms
Weight	5.8 kg (approx.)
Mounting	Vertically on a wall
Mechanical operation switching rate	2 operations per second
Mechanical life	5 million operations
Operating Temperature	-40°C to +70°C
Standards	IEC 77, IEC158-1, IS11731(Part 1 & 2)

Control Circuit

Mechanism Construction	Electromagnet with return springs
Rated control voltage U_N	110V DC
Service voltage	0.7 to 1.25 U_N
Power consumption at nominal control voltage	20~26W (approx.)
Auxiliary Contacts	
Nature of contacts	4 (2NO & 2NC) can be customized
Rated voltage	220V
Rated current	6A
Max. closing current	25A



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