RFPMV

Motor Controllers Front Mounted Plug In module Type RFPMV..



Main features

- Auxiliary alarm relay output plug-in module
- Compact and lightweight design
- RoHs compliant
- Simple to install
- CE
- UL, cUL Listed (Accessory of Listed RSBT)

Description

RFPM is an extremely compact, front-mounting plug-in relay output module for **RSBT** softstarter. **RFPM** provides a relay output for the alarms genertated by **RSBT** softstarter via a Normally Open (**NO**) or Normally Closed (**NC**) changeover contact.

Order code

RF PM V □

Enter the code entering the corresponding option instead of □.

Code	Option	Description
R	-	Front Plugin Module
F	-	
P	-	
M	-	
□	V10	Alarm Output with 1 relay contact
	VC1	Modbus Plug-in module

General Specifications

Operating temperature	-20°C to + 60°C (-4°F to + 140°F)
Storage temperature	-40°C to + 85°C (-58°F to 185°F)
Relative Humidity	<95% Non-Condensing
Protection coordination	Class 10
Pollution Degree	2
Dimensions (DxWxH)	22.5 x 30 x 56mm

Relay Specifications

Relay configuration	Common, Normally Open (NO), Normally Closed (NC), Changeover
Contact Rating	3A, 250VAC 3A, 30VDC

Control Input Specifications

Control type	Electromechanical relay
Number of relays	1

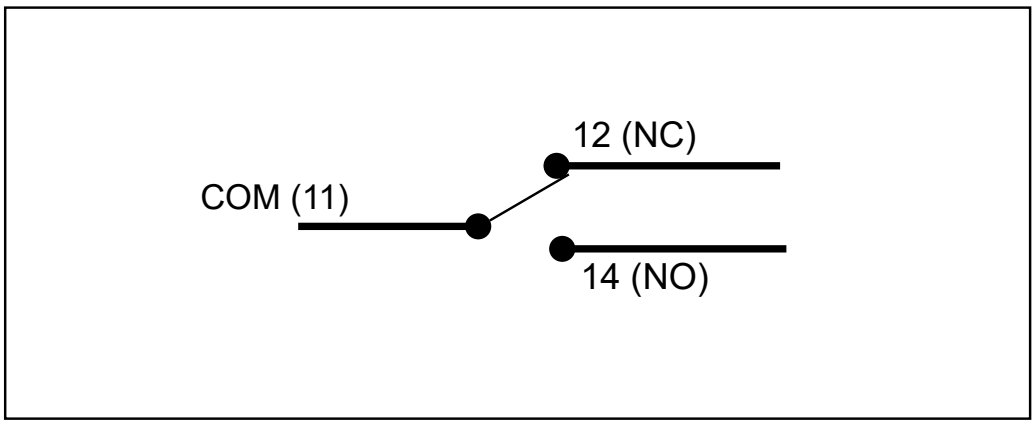
Output Specifications

Utilization category	AC-15

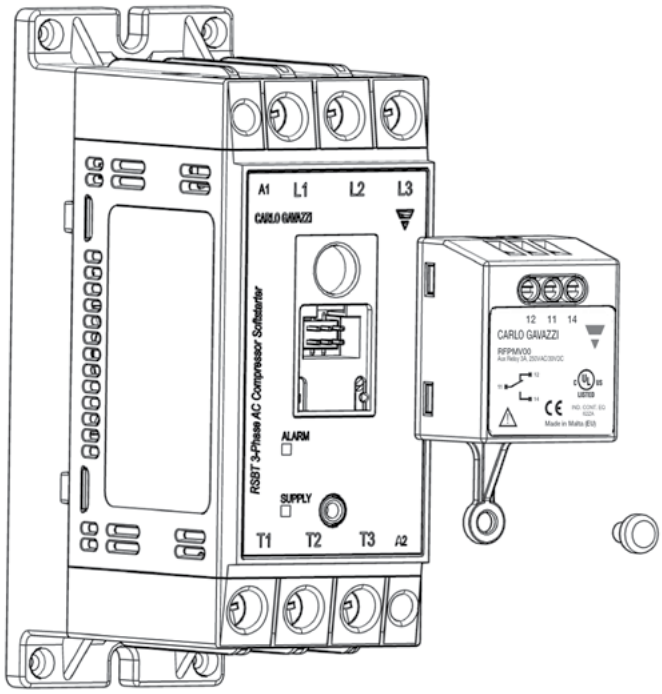
Supply Specifications

Supply Voltage	Supplied internally from RSBT terminal

Functional Diagram



Mounting Instructions



RFPM is a plug-in auxiliary module which is provided as an accessory. To install RFPM please proceed as follows:

1. Ensure that power source is disconnected before installing/servicing.

2. Remove the plastic lid located at the front of softstarter by using a screwdriver so as to uncover the terminal connector.

3. Mount RFPM as shown in the diagram by gently pluggung it into the front terminal of the softstarter.

4. Screw the RFPM in place using the screw provided for a secure connection to the softstarter.

Mode of operation

- When connected to RSBT front terminal, RFPM10 relay contact will operate as shown in the table hereunder.
- During an alarm condition, signalled by RSBT, the RFPM10 relay contact will switch OFF to position 11/12.
- In the event of supply phase loss, RFPM10 relay contact will be switched to OFF position 11/12.
- During Idle and Bypass model, relay contact will be switched ON to postion11/14.

Condition	Relay Contact
Line Voltage Out of Range	11/12
Incorrect Phase Sequence	11/12
Frequency Out of Range	11/12
Locked Rotor Condition (during ramping)	11/12
Ramp Up Time > 1 sec	11/12
Over Temperature	11/12
Current AOT normal (during bypass)	11/12
Supply Voltage Unbalance	11/12
RSBT in Ramping mode	11/14
RSBT in Idle State	11/14
RSBT in Bypass mode	11/14

Connection Specifications

Auxiliary conductors 11, 12, 21, 22, 24	
Rigid (solid or stranded)	0.2...4 mm²
Flexible with end sleeve (ferrule)	0.2...2.5 mm²
UL/cUL rated data Rigid (solid or stranded)	AWG 24...12
Terminal screws	M2.5
Maximum tightening torque	0.5 Nm (4.0 lb.in)
Stripping length	6 mm

Features

General data

Material	PA66
Assembly	Plug-in
Touch protection	IP20
Weight	RSBT..V11..: approx. 35g
Overvoltage category	III

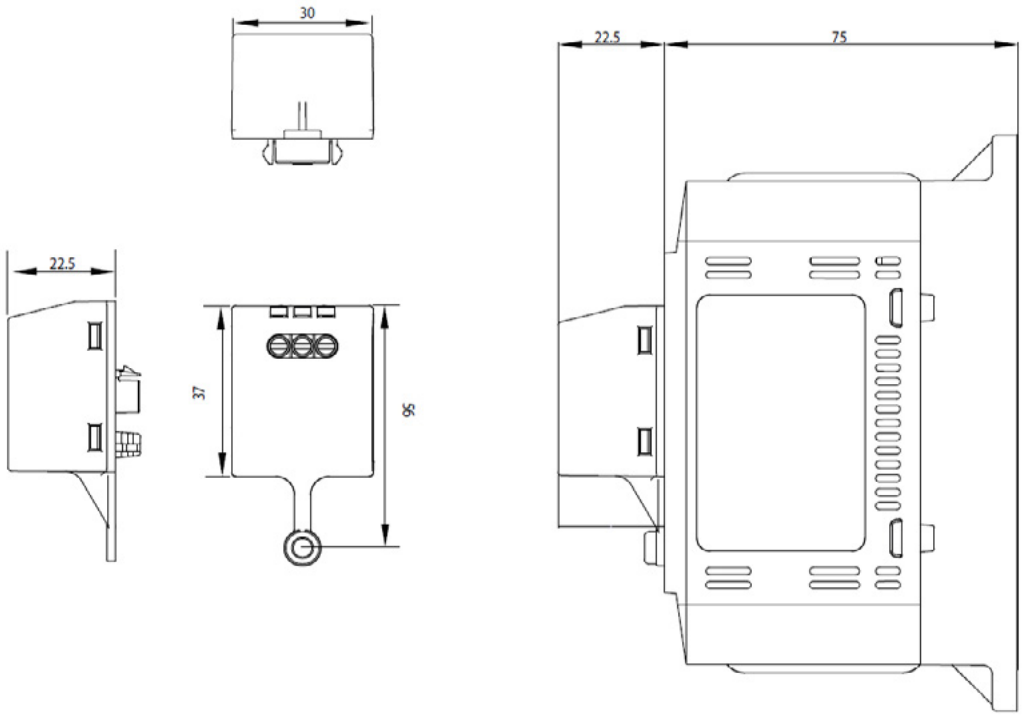


Fig. 1 *RSBT..V21/C1 HP versions*

Environmental

Working temperature	-20ºC to +60ºC (-4ºF to +140ºF)
Storage tempreature	-30ºC to +85ºC (-22ºF to 185ºF)
Relative humidity	<95% non condensing @ 40ºC
Pollution degree	2
EU RoHS compliant	Yes

Compatibility and conformance

EMC: Immunity **Emission**	IEC / EN 61000-6-4 IEC / EN 61000-6-2
ESD Immunity	IEC / EN 61000-4-2 8kV, PC2 Air discharge 4kV,PC2 Contact
Conformance	IEC/EN 60947-4-2 UL Listed (E172877) cUL Listed (E172877)
Approvals	CE c UL us LISTED

Electromagnetic compatibility (EMC) - emissions	
Radio Interference field emission (Radiated)	EN/IEC 55011 Class A: from 30 to 1000 MHz
Radio interference field emissions (conducted)	EN/IEC 55011 Class A: from 0.15 to 30 MHz

Note:

- Performance Criteria 1 (PC1): No degradation of performance or loss of function is allowed when the product is operated as intended.
- Performance Criteria 2 (PC2): During the test, degradation of performance or partial loss of function is allowed. However when the test is complete the product should return operating as intended by itself.
- Performance Criteria 3 (PC3): Temporary loss of function is allowed, provided the function can be restored by manual operation of the controls.