Motor Protection Relays
Thermal Overload Relays
for BF Series Contactors

Phase failure / single phase sensitive Three poles (three phase)

RF38...

Order code	Adjustment range	Protection fuses IEC aM	IEC gG	UL ❶	Qty per pkg	Wt
	[A]	[A]	[A]	[A]	n°	[kg]
MANUAL OR AUTOMATIC RESETTING. Direct mounting on BF09...BF38 contactors. Independent mounting with RFX38 04 base.						
RF38 0016	0.1...0.16	0.25	—	1	1	0.160
RF38 0025	0.16...0.25	0.5	—	1	1	0.160
RF38 0040	0.25...0.4	0.5	1	3	1	0.160
RF38 0063	0.4...0.63	1	2	3	1	0.160
RF38 0100	0.63...1	2	4	3	5	0.160
RF38 0160	1...1.6	2	4	6	5	0.160
RF38 0250	1.6...2.5	4	6	10	5	0.160
RF38 0400	2.5...4	4	6	15	5	0.160
RF38 0650	4...6.5	8	16	25	5	0.160
RF38 1000	6.3...10	10	20	40	5	0.160
RF38 1400	9...14	16	32	50	5	0.160
RF38 1800	13...18	25	40	70	5	0.160
RF38 2300	17...23	25	50	90	5	0.160
RF38 2500	20...25	32	50	100	5	0.160
RF38 3200	24...32	40	63	120	1	0.160
RF38 3800	32...38	40	63	150	1	0.160

❶ UL RK5 fuse class for RF38 types and UL K5 fuse class for RF...95 types.

NOTE: Two pole (single phase) versions are available on request.
Add the letter "S" in the order code e.g. RF381000 is three pole; RFS381000 two pole.
The appropriate adjustment range of the overload relay should be selected on the basis of the motor nameplate full-load current when direct, across the line starting is considered.

Three-phase IEC motor powers ❸

230V [kW]	400V [kW]	415V [kW]	440V [kW]	500V [kW]	690V [kW]
❷	❷	❷	❷	❷	0.06
❷	0.06	0.06	0.06-0.09	0.06-0.09	0.09-0.12
0.06	0.09	0.09	0.12	0.12	0.18
0.09	0.12-0.18	0.12-0.18	0.18	0.18	0.25
0.12	0.25	0.25	0.37	0.25-0.37	0.37-0.55
0.18-0.25	0.37-0.55	0.37-0.55	0.55	0.55-0.75	0.75
0.37	0.75	0.75	0.75-1.1	1.1	1.1-1.5
0.55-0.75	1.1-1.5	1.1-1.5	1.1	1.5-2.2	2.2-3
1.1-1.5	2.2	2.2	2.2-3	3	4
1.5-2.2	3-4	4	4	4-5.5	5.5-7.5
3	5.5	5.5	5.5-7.5	5.5-7.5	11
4	7.5	7.5-9	9	11	15
5.5	11	9-11	11	11	18.5
5.5	11	11	11	15	22
7.5	15	15	15	18.5	30
11	18.5	18.5	18.5	22	30

❷ No standard powers ratings exist; select relay according to current consumption.
❸ The indicated powers apply to 4-pole motors; it is advisable to always check that the nameplate motor current is within the relay adjustment range.

Certifications and compliance
Certifications obtained:

Tipo	c UL us	CSA	EAC	CCC	Register of shipping LROS
RF38	●	—	●	●	—

● Certified products.

cULus – UL Listed for USA and Canada (cULus - File E93601) as Auxiliary Devices – Thermal Overload Relays, 600VAC, open type, ambient compensated, 5000 Amps RMS symmetrical short circuit rating up to 82A FLA range and 10000 Amps RMS for 95A and 110A FLA range; the trip current is 120% FLA.
CSA – CSA certified for Canada only (File 54332) as Auxiliary Devices for use with magnetic contactors.

Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-4-1, UL508, CSA C22.2 n° 14.

FIXING EASE OF THE THERMAL OVERLOAD RELAY
While the thermal overload relay is being linked to the contactor, its auxiliary contact fits on and connects to the coil terminal by rigid terminal.
Complete relay fixing is done in a single operation, with no need of other connections.