

Data sheets

HEAT DISSIPATION

MOTOR PROTECTION RELAYS

Type	Range	Resistance per phase	Dissipation at minimum range value per phase	Dissipation at maximum range value per phase
	[A]	[Ω]	[W]	[W]

THERMAL OVERLOAD RELAYS RF9

RF..9 015	0.09-0.15	94.7	0.77	2.13
RF..9 023	0.14-0.23	38.0	0.74	2.01
RF..9 033	0.2-0.33	15.8	0.63	1.72
RF..9 05	0.3-0.5	9.72	0.87	2.43
RF..9 075	0.45-0.75	3.50	0.71	1.97
RF..9 1	0.6-1	2.06	0.74	2.06
RF..9 1V5	0.9-1.5	0.95	0.77	2.13
RF..9 2V3	1.4-2.3	0.36	0.70	1.9
RF..9 33	2-3.3	0.21	0.82	2.24
RF..9 5	3-5	0.081	0.73	2.03
RF..9 75	4.5-7.5	0.045	0.91	2.53
RF..9 10	6-10	0.026	0.93	2.57
RF..9 15	9-15	0.011	0.89	2.48

THERMAL OVERLOAD RELAYS RF38

RF..38 0016	0.1-0.16	76.35	0.76	1.95
RF..38 0025	0.16-0.25	29.11	0.75	1.82
RF..38 0040	0.25-0.4	12.26	0.76	1.96
RF..38 0063	0.4-0.63	4.67	0.75	1.86
RF..38 0100	0.63-1	2.07	0.82	2.07
RF..38 0160	1-1.6	0.77	0.77	1.97
RF..38 0250	1.6-2.5	0.29	0.75	1.83
RF..38 0400	2.5-4	0.13	0.83	2.14
RF..38 0650	4-6.5	0.044	0.72	1.89
RF..38 1000	6.3-10	0.024	0.96	2.41
RF..38 1400	10-14	0.01	0.83	2.02
RF..38 1800	12-18	0.0066	1.12	2.16

RF..38 2300	17-23	0.0042	1.24	2.26
RF..38 2500	20-25	0.0034	1.37	2.14
RF..38 3200	25-32	0.0029	1.66	3.00
RF..38 3800	32-38	0.0022	2.28	3.22

THERMAL OVERLOAD RELAYS RF25

RF..25 015	0.09-0.15	94.7	0.77	2.13
RF..25 023	0.14-0.23	38.0	0.74	2.01
RF..25 033	0.2-0.33	15.8	0.63	1.72
RF..25 05	0.3-0.5	9.72	0.87	2.43
RF..25 075	0.45-0.75	3.50	0.71	1.97
RF..25 1	0.6-1	2.06	0.74	2.06
RF..25 1V5	0.9-1.5	0.95	0.77	2.13
RF..25 2V3	1.4-2.3	0.36	0.70	1.9
RF..25 33	2-3.3	0.21	0.82	2.24
RF..25 5	3-5	0.081	0.73	2.03
RF..25 75	4.5-7.5	0.045	0.91	2.53
RF..25 10	6-10	0.026	0.93	2.57
RF..25 15	9-15	0.011	0.89	2.48
RF..25 23	14-23	0.004	0.73	1.96
RF..25 26	17-26	0.004	1.0	2.6

THERMAL OVERLOAD RELAYS RF95


RF..95 23	14-23	0.0045	0.88	2.38
RF..95 33	20-33	0.0023	0.92	2.50
RF..95 42	28-42	0.0018	1.40	3.17
RF..95 50	35-50	0.0013	1.65	3.37
RF..95 65	46-65	0.0010	2.14	4.26
RF..95 82	60-82	0.0006	2.16	4.03
RF..95 95	70-95	0.0004	2.16	4.03
RF..95 110	90-110	0.0004	2.87	4.3

THERMAL OVERLOAD RELAYS RF200, RF420

RF..200 100	60-100	0.003	0.73	2.03
RF..200 125	75-125	0.003	0.73	2.03

RF..200 150	90-150	0.003	0.73	2.03
RF..200 200	120-200	0.003	0.73	2.03
RF..420 250	150-250	0.003	0.73	2.03
RF..420 300	180-300	0.003	0.73	2.03
RF..420 420	250-420	0.003	0.73	2.03

ELECTRONIC MOTOR PROTECTION RELAYS

Type	Rated supply voltage U_s	Maximum dissipation at rated supply voltage U_s  [W]
DRPTC	24VDC	0.58
DRPT	24VAC	1.55
DRPT	110VAC	1.4
DRPT	220VAC	1.7

-  To calculate total heat dissipation, add contact dissipation to the value given above. The maximum specific dissipation of the relay contacts is 0.2W/A. The estimate of contact dissipation is to be made considering total contact current and the diversity factor if the device is equipped with more than one output relay.


 LOVATO Electric S.P.A.