

Type of contactor		LC1-	D09	DT20	D12	DT25	D18	DT32	D25	DT40
<b>Pole characteristics</b>										
<b>Rated operational current (Ie)</b> (Ue ≤ 440 V)	In AC-3, θ ≤ 60 °C	A	9		12		18		25	
	In AC-1, θ ≤ 60 °C	A	25	20	25		32		40	
<b>Rated operational voltage (Ue)</b>	Up to	V	690		690		690		690	
<b>Frequency limits</b>	Of the operating current	Hz	25...400		25...400		25...400		25...400	
<b>Conventional thermal current (Ith)</b>	θ ≤ 60 °C	A	25	20	25	25	32	32	40	40
<b>Rated making capacity (440 V)</b>	Conforming to IEC 947		250		250		300		450	
<b>Rated breaking capacity (440 V)</b>	Conforming to IEC 947		250		250		300		450	
<b>Permissible short-time rating</b> No current flowing for preceding 15 minutes at θ ≤ 40 °C	For 1 s	A	210		210		240		380	
	For 10 s	A	105		105		145		240	
	For 1 min	A	61		61		84		120	
	For 10 min	A	30		30		40		50	
<b>Protection by fuse</b> against short-circuits (U ≤ 690 V)	Without thermal overload relay, fuse gG	type 1	A	25	40		50		63	
		type 2	A	20	25		35		40	
	With thermal overload relay	A	See pages 2/52 and 2/53, for aM or gG fuse ratings corresponding to the associated thermal overload relay							
<b>Average impedance per pole</b>	At Ith and 50 Hz	mΩ	2.5		2.5		2.5		2	
<b>Power dissipation per pole</b> for the above operating currents	AC-3	W	0.20		0.36		0.8		1.25	
	AC-1	W	1.56		1.56		2.5		3.2	

a.c. control circuit characteristics

<b>Rated control circuit voltage (Uc)</b>	50/60 Hz	V	12...690		
<b>Control voltage limits</b> 50 or 60 Hz coils	Operational		–		
	Drop-out		–		
	50/60 Hz coils	Operational		0.8...1.1 Uc on 50 Hz and 0.85...1.1 Uc on 60 Hz at 60 °C	
		Drop-out		0.3...0.6 Uc at 60 °C	
<b>Average consumption</b> at 20 °C and at Uc	~ 50 Hz	Inrush	50 Hz coil	VA	–
			Cos φ		0.75
		50/60 Hz coil	VA	70	
			Cos φ		0.3
	Sealed	50 Hz coil	VA	–	
			Cos φ		0.3
		50/60 Hz coil	VA	7	
			Cos φ		0.3
~ 60 Hz	Inrush	60 Hz coil	VA	–	
		Cos φ		0.75	
	50/60 Hz coil	VA	70		
		Cos φ		0.3	
Sealed	60 Hz coil	VA	–		
		Cos φ		0.3	
	50/60 Hz coil	VA	7.5		
		Cos φ		0.3	
<b>Heat dissipation</b>	50/60 Hz	W	2...3		
<b>Operating time (3)</b>	Closing "C"	ms	12...22		
	Opening "O"	ms	4...19		
<b>Mechanical life</b> in millions of operating cycles	50 or 60 Hz coil		–		
	50/60 Hz coil on 50 Hz		15		
<b>Maximum operating rate</b> at ambient temperature ≤ 60 °C	In operating cycles per hour		3600		

(1) Protection ensured for the connection cross-sections shown on page 2/33 and for connection via cable.

(2) In the least favourable direction, without change of contact state (coil supplied at Ue).

(3) The closing time "C" is measured from the moment the coil supply is switched on to initial contact of the main poles. The opening time "O" is measured from the moment the coil supply is switched off to the moment the main poles separate.

D32	DT60	D38	D40	D50	D65	D80	D95	D115	D150
32	32	38	40	50	65	80	95	115	150
50	60	50	60	80	80	125	125	200	200
690	690	690	1000	1000	1000	1000	1000	1000	1000
25...400	25...400	25...400	25...400	25...400	25...400	25...400	25...400	25...400	25...400
50	60	50	60	80	80	125	125	200	200
550	500	550	800	900	1000	1100	1100	1260	1660
550	500	550	800	900	1000	1100	1100	1100	1400
430	430	430	720	810	900	990	1100	1100	1400
260	260	310	320	400	520	640	800	950	1200
138	138	150	165	208	260	320	400	550	580
60	60	60	72	84	110	135	135	250	250
63	63	63	80	100	160	200	200	250	315
63	63	63	80	100	125	160	160	200	250

See pages 2/52 and 2/53, for aM or gG fuse ratings corresponding to the associated thermal overload relay

2	2	2	1.5	1.5	1	0.8	0.8	0.6	0.6
2	2	3	2.4	3.7	4.2	5.1	7.2	7.9	13.5
5	5	5	5.4	9.6	6.4	12.5	12.5	24	24

12...690	24...660				24...500			
–	0.85...1.1 Uc at 55 °C				0.85...1.1 Uc at 55 °C			
–	0.3...0.6 Uc at 55 °C				0.3...0.5 Uc at 55 °C			
0.8...1.1 Uc on 50 Hz and 0.85...1.1 Uc on 60 Hz at 60 °C	0.8...1.1 Uc on 50 Hz and 0.85...1.1 Uc on 60 Hz at 55 °C				0.8...1.15 Uc on 50/60 Hz at 55 °C			
0.3...0.6 Uc at 60 °C	0.3...0.6 Uc at 55 °C				0.3...0.5 Uc at 55 °C			
–	200				300		–	
0.75	0.75				0.8		0.9	
70	245				280...350		280...350	
–	20				22		–	
0.3	0.3				0.3		0.9	
7	26				2...18		2...18	
–	220				300		–	
0.75	0.75				0.8		0.9	
70	245				280...350		280...350	
–	22				22		–	
0.3	0.3				0.3		0.9	
7.5	26				2...18		2...18	
2...3	6...10				3...8		3...4.5	
12...22	20...26	20...26	20...26	20...35	20...35	20...50	20...35	
4...19	8...12	8...12	8...12	6...20	6...20	6...20	40...75	
–	16	16	16	10	10	8	–	
15	6	6	6	4	4	8	8	
3600	3600	3600	3600	3600	3600	2400	1200	