TeSys contactors
Model d

Type of contactor			LC1-	D09	DT20	D12	DT25	D18	DT32	D25	DT40
Pole characteristics											
Rated operational current (Ie)	In AC-3, θ ≤ 60 °C		**A**	9		12		18		25	
(Ue ≤ 440 V)	In AC-1, θ ≤ 60 °C		**A**	25	20	25		32		40	
Rated operational voltage (Ue)	Up to		**V**	690		690		690		690	
Frequency limits	Of the operating current		**Hz**	25…400		25…400		25…400		25…400	
Conventional thermal current (Ith)	θ ≤ 60 °C		**A**	25	20	25	25	32	32	40	40
Rated making capacity (440 V)	Conforming to IEC 947			250		250		300		450	
Rated breaking capacity (440 V)	Conforming to IEC 947			250		250		300		450	
Permissible short-time rating	For 1 s		**A**	210		210		240		380	
No current flowing for preceding	For 10 s		**A**	105		105		145		240	
15 minutes at θ ≤ 40 °C	For 1 min		**A**	61		61		84		120	
	For 10 min		**A**	30		30		40		50	
Protection by fuse	Without thermal overload relay, fuse gG	type 1	**A**	25		40		50		63	
against short-circuits (U ≤ 690 V)		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							
Average impedance per pole	At Ith and 50 Hz		**mΩ**	2.5		2.5		2.5		2	
Power dissipation per pole	AC-3		**W**	0.20		0.36		0.8		1.25	
for the above operating currents	AC-1		**W**	1.56		1.56		2.5		3.2	
a.c. control circuit characteristics											
Rated control circuit voltage (Uc)	50/60 Hz		**V**	12…690							
Control voltage limits											
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							
Average consumption ∿ 50 Hz	Inrush	50 Hz coil	**VA**	–							
at 20 °C and at Uc		Cos φ		0.75							
		50/60 Hz coil	**VA**	70							
	Sealed	50 Hz coil	**VA**	–							
		Cos φ		0.3							
		50/60 Hz coil	**VA**	7							
∿ 60 Hz	Inrush	60 Hz coil	**VA**	–							
		Cos φ		0.75							
		50/60 Hz coil	**VA**	70							
	Sealed	60 Hz coil	**VA**	–							
		Cos φ		0.3							
		50/60 Hz coil	**VA**	7.5							
Heat dissipation 50/60 Hz			**W**	2…3							
Operating time (3)	Closing “C”		**ms**	12…22							
	Opening “O”		**ms**	4…19							
Mechanical life	50 or 60 Hz coil			–							
in millions of operating cycles	50/60 Hz coil on 50 Hz			15							
Maximum operating rate	In operating cycles per hour			3600							
at ambient temperature ≤ 60 °C											

(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.

Selection: pages 1/6 to 1/35 **References:** pages 2/6 to 2/9 **Dimensions:** pages 2/44 to 2/47 **Schemes:** pages 2/48 and 2/49

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