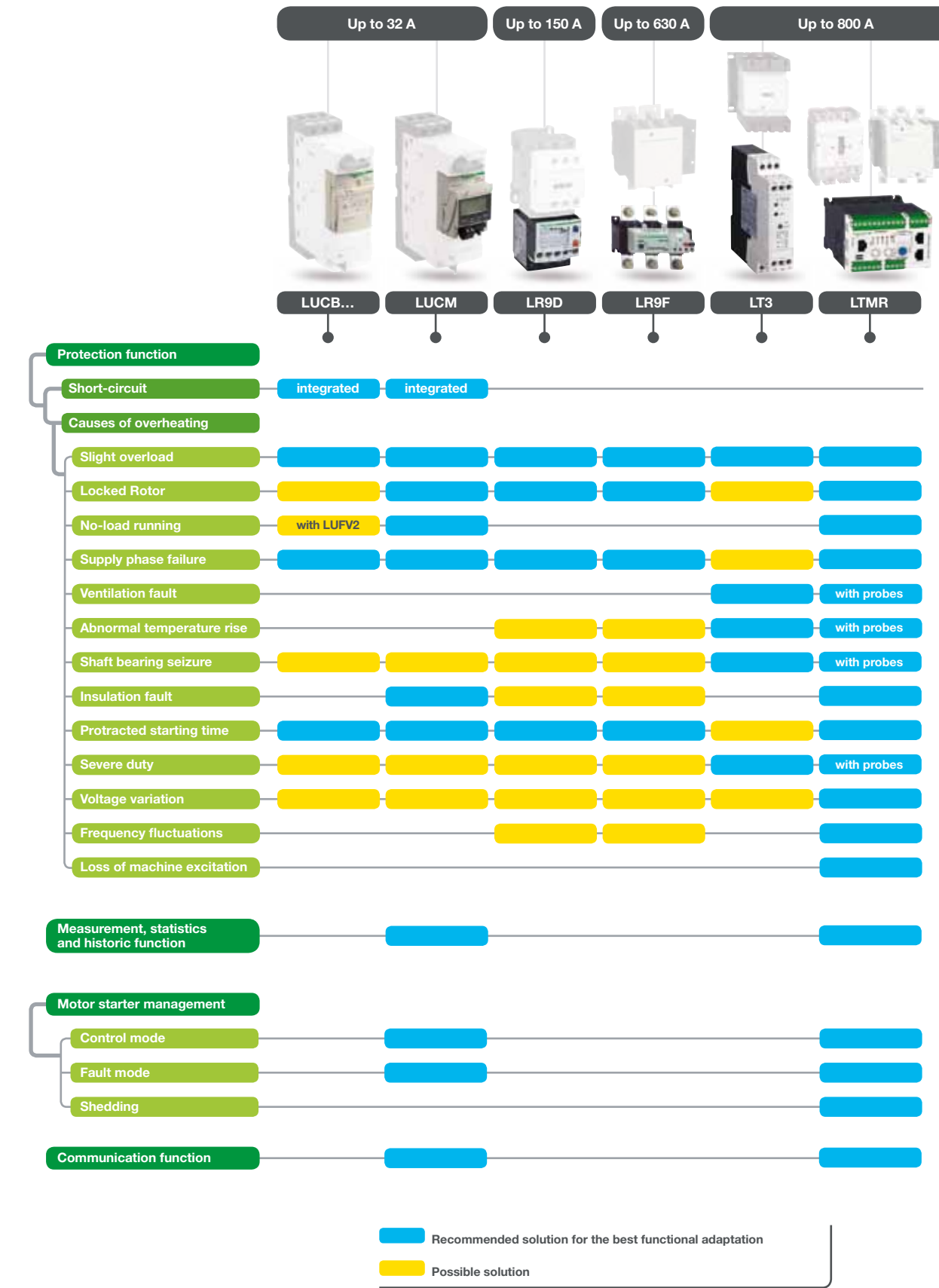


TeSys Advanced



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Schneider Electric Industries SAS

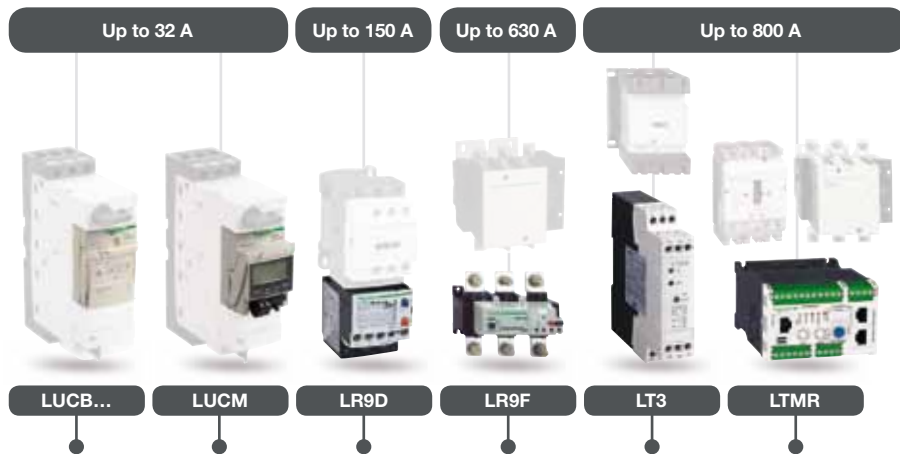
Head Office
 35 rue Joseph Monier
 92506 Rueil-Malmaison Cedex- France
 Tel.: +33 (0)1 41 20 70 00
www.schneider-electric.com

TeSys®

Panorama of motor control and protection solutions

Flexible
 Safety M
 Smart
 Connected
 Protection
 Compliant
 Energy efficiency
 Reliable
 Available

TeSys Advanced



	Up to 32 A	Up to 150 A	Up to 630 A	Up to 800 A
Protection function				
Short-circuit	integrated	integrated		
Causes of overheating				
Slight overload	Recommended	Recommended	Recommended	Recommended
Locked Rotor	Possible	Recommended	Recommended	Recommended
No-load running	with LUFV2	Recommended		Recommended
Supply phase failure	Recommended	Recommended	Recommended	Possible
Ventilation fault				Recommended with probes
Abnormal temperature rise		Possible	Possible	Recommended with probes
Shaft bearing seizure	Possible	Possible	Possible	Recommended with probes
Insulation fault		Recommended	Possible	Recommended
Protracted starting time	Recommended	Recommended	Recommended	Possible
Severe duty	Possible	Possible	Possible	Recommended with probes
Voltage variation	Possible	Possible	Possible	Recommended
Frequency fluctuations		Possible	Possible	Recommended
Loss of machine excitation				Recommended
Measurement, statistics and historic function		Recommended		Recommended
Motor starter management				
Control mode		Recommended		Recommended
Fault mode		Recommended		Recommended
Shedding				Recommended
Communication function		Recommended		Recommended

■ Recommended solution for the best functional adaptation
■ Possible solution



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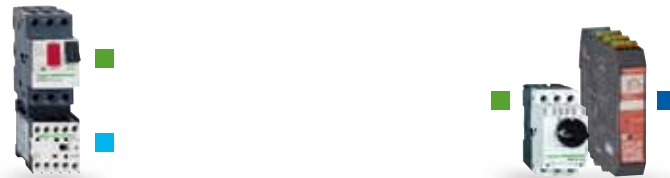
Life Is On

Schneider
Electric

TeSys Universal

Build your motor starter!

	Contactor	Thermal-magnetic circuit breaker	Magnetic circuit breaker	Switch disconnecter fuse	Thermal overload relay	Compact starter controller	Main / Emergency stop switch disconnecter	Fuse carrier	Ultra compact motor starter
Range name	TeSys K, D, F	TeSys GV	TeSys GVL	TeSys GS	TeSys K, D, F	TeSys U	TeSys Vario	TeSys DF	TeSys H
Product reference prefix	LC	GV	GV.L	GS	LR	LU	V	DF	LZ
Motor starter structure - 4 functions to be covered:									
	Disconnection and breaking	■	■	■	■	■	■	■	■
	Short-circuit protection	■	■	■	■	■	■	■	■
	Overload protection	■	■	■	■	■	■	■	■
	Control	■	■	■	■	■	■	■	■



Motor power

AC3 380/400 V

le max. AC3 (Ue ≤ 440 V)

le AC1 (T < 60°C)

Contactor (*)

Breaking capacity Icu/400 V

Thermal-magnetic circuit breaker

Breaking capacity Icu/400 V

Thermal-magnetic circuit breaker

Breaking capacity Icu/400 V

Magnetic circuit breaker

Breaking capacity Icu/400 V

Magnetic circuit breaker

Switch disconnecter fuse

Fuse type

Operational current Ie/400 V

Thermal overload relay

cl10A

cl20

Breaking capacity Icu/400 V

Power base

Control unit

Breaking capacity Icu/400 V

Magnetic circuit breaker

Breaking capacity Icu/400 V

Magnetic circuit breaker

Ultra-compact starter

Standard version

or "safety" version

0.37...0.55 kW 0.75 kW 1.1...1.5 kW 2.2 kW 3 kW 4 kW 5.5 kW

TeSys K mini contactor

6 A	6 A	6 A	6 A	9 A	9 A	12 A
20 A	20 A	20 A	20 A	20 A	20 A	20 A
LC1K06 ■■	LC1K06 ■■	LC1K06 ■■	LC1K06 ■■	LC1K09 ■■	LC1K09 ■■	LC1K12 ■■
100 KA	100 KA	100 KA	100 KA	100 KA	100 KA	100 KA
GV2P06	GV2P07	GV2P08	GV2P10	GV2P14	GV2P14	GV2P16
Rotary handle						
100 KA	100 KA	100 KA	100 KA	100 KA	100 KA	15 KA
GV2ME06	GV2ME07	GV2ME08	GV2ME10	GV2ME14	GV2ME14	GV2ME16
Pushbutton control						
100 KA	100 KA	100 KA	100 KA	100 KA	100 KA	15 KA
GV2LE06	GV2LE07	GV2LE08	GV2LE10	GV2LE14	GV2LE14	GV2LE16
Tumbler control						
100 KA	100 KA	100 KA	100 KA	100 KA	100 KA	100 KA
GV2L06	GV2L07	GV2L08	GV2L10	GV2L14	GV2L14	GV2L16
Rotary handle						
GS1DD	GS1DD	GS1DD	GS1DD	GS1DD	GS1DD	GS1DD
10 x 38	10 x 38	10 x 38	10 x 38	10 x 38	10 x 38	10 x 38
2 A	4 A	4 A	6 A	8 A	12 A	16 A
LR2K0306	LR2K0308	LR2K0310	LR2K0312	LR2K0314	LR2K0316	LR2K0321

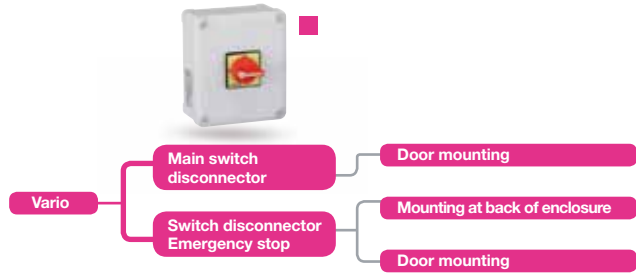
TeSys U compact motor starter

TeSys H Ultra-compact motor starter

> 100 KA	> 100 KA	> 100 KA	> 100 KA	> 100 KA
GV2L06	GV2L07	GV2L08	GV2L10	GV2L14
Rotary handle				
> 100 KA	> 100 KA	> 100 KA	> 100 KA	> 100 KA
GV2LE06	GV2LE07	GV2LE08	GV2LE10	GV2LE14
Pushbutton control				
LZ1H2X...	LZ1H2X...	LZ1H6X...	LZ1H6X...	LZ1H6X...
LZ7H2X...	LZ7H2X...	LZ7H6X...	LZ7H6X...	LZ7H6X...

(*) "■■": must be replaced by a two-digit coil voltage code (eg.: "P7" for 230 V AC, "BD" for 24 V DC) - Please refer to TeSys catalogue

	■ ■	■ ■	■ ■	● ●	★ ★	□ □	□	★ ★	★ ★
	AC	DC	DC < 2.4 W	DC	AC/DC	AC/DC	AC 40/400	AC	DC
24 V	B7	BD	BL	BW	B/BL				
48 V	E7	ED	EL	EW	ES				
72 V		SD	SL	SW	ES				
110 V	F7	FD		FW	FU	FW	F	F7	FD
220 V	M7				FU	MW	M	M7	MD
230 V	P7				FU	MW	M	P7	
400 V	V7					QW	V	V7	



0.37...0.55 kW 0.75 kW 1.1...1.5 kW 2.2 kW 3 kW 4 kW 5.5 kW 7.5 kW 9 kW 11 kW 15 kW

TeSys D contactor

9 A	9 A	9 A	9 A	9 A	9 A	12 A	18 A	25 A	25 A	32 A
25 A	25 A	25 A	25 A	25 A	25 A	25 A	32 A	40 A	40 A	50 A
LC1D09 ■ ■	LC1D09 ■ ■	LC1D09 ■ ■	LC1D09 ■ ■	LC1D09 ■ ■	LC1D09 ■ ■	LC1D12 ■ ■	LC1D18 ■ ■	LC1D25 ■ ■	LC1D25 ■ ■	LC1D32 ■ ■
100 KA	100 KA	100 KA	100 KA	100 KA	100 KA	100 KA	100 KA	100 KA	100 KA	100 KA
GV2P06	GV2P07	GV2P08	GV2P10	GV2P14	GV2P14	GV2P16	GV3P18	GV3P25	GV3P25	GV3P32

100 KA	100 KA	100 KA	100 KA	100 KA	100 KA	15 KA	15 KA	15 KA	15 KA	15 KA
GV2ME06	GV2ME07	GV2ME08	GV2ME10	GV2ME14	GV2ME14	GV2ME16	GV2ME20	GV2ME21	GV2ME22	GV2ME32

100 KA	100 KA	100 KA	100 KA	100 KA	100 KA	15 KA	15 KA	15 KA	15 KA	15 KA
GV2LE06	GV2LE07	GV2LE08	GV2LE10	GV2LE14	GV2LE14	GV2LE16	GV2LE20	GV2LE22	GV2LE22	GV2LE32

100 KA	100 KA	100 KA	100 KA	100 KA	100 KA	100 KA	100 KA	100 KA	100 KA	100 KA
GV2L06	GV2L07	GV2L08	GV2L10	GV2L14	GV2L14	GV2L16	GV2L20	GV2L22	GV3L25	GV3L32

GS1DD	GS1DD	GS1DD	GS1DD	GS1DD	GS1DD	GS1DD	GS1DD	GS1DD	GS1DD	GS1DD
10 x 38	10 x 38	10 x 38	10 x 38	10 x 38	10 x 38	10 x 38	10 x 38	10 x 38	10 x 38	10 x 38
2 A	4 A	4 A	6 A	8 A	12 A	16 A	16 A	25 A	25 A	32 A

LRD06	LRD07	LRD08	LRD10	LRD12	LRD14	LRD16	LRD21	LRD22	LRD22	LRD32
									LRD325	LRD332
		LRD1508	LRD1510	LRD1512	LRD1514	LRD1516	LRD1521	LRD1522	LRD1522	LRD1532
									LRD325L	LRD332L

TeSys U compact motor starter

50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA
LUB12	LUB12	LUB12	LUB12	LUB12	LUB12	LUB12	LUB32	LUB32	LUB32	LUB32
LUCA1X ★ ★	LUCA05 ★ ★	LUCA05 ★ ★	LUCA12 ★ ★	LUCA12 ★ ★	LUCA12 ★ ★	LUCA12 ★ ★	LUCA18 ★ ★	LUCA32 ★ ★	LUCA32 ★ ★	LUCA32 ★ ★

LAD5C..., LAD9AP3... modules provide pre-wired solutions for GV + LC1D control circuits. Use LUFC00 for TeSys U.



Thermal current I_{th} (A)

12 20

Mini-Vario for standard applications

Ø 22.5 fixing	VBDN12	VBDN20
4 screw fixing	VBDN12	VBDN20
Ø 22.5 fixing	VCCDN12	VCCDN20
4 screw fixing	VCCDN12	VCCDN20
Ø 22.5 fixing	VCDN12	VCDN20
4 screw fixing	VCDN12	VCDN20

12 20 25 32 40 63 80 125

Vario for high performance applications

VBD02	VBD01	VBD0	VBD1	VBD2	VBF3	VBF4	VBF5
VBF02	VBF01	VBF0	VBF1	VBF2	VBF3	VBF4	VBF5
VCCD02	VCCD01	VCCD0	VCCD1	VCCD2	VCCF3	VCCF4	VCCF5
VCCF02	VCCF01	VCCF0	VCCF1	VCCF2	VCCF3	VCCF4	VCCF5
VCD02	VCD01	VCD0	VCD1	VCD2	VCF3	VCF4	VCF5
VCF02	VCF01	VCF0	VCF1	VCF2	VCF3	VCF4	VCF5



18.5 kW 22 kW 30 kW 37 kW 45 kW 55 kW 75 kW

40 A	50 A	65 A	80 A	95 A	115 A	150 A
60 A	80 A	80 A	125 A	125 A	200 A	200 A
LC1D40A ■■	LC1D50A ■■	LC1D65A ■■	LC1D80 ●●	LC1D95 ●●	LC1D115 ■■	LC1D150 ■■
50 KA	50 KA	50 KA	70 KA	70 KA	70 KA	70 KA
GV3P40	GV3P50	GV3P65	GV7RS80	GV7RS100	GV7RS150	GV7RS150
Tumbler control						
50 KA	50 KA	50 KA	15 KA	35 KA	35 KA	35 KA
GV3P40	GV3P50	GV3P65	GV3ME80	GV7RE100	GV7RE150	GV7RE150
Rotary handle						
50 KA	50 KA	50 KA	70 KA	70 KA	70 KA	70 KA
GV3L40	GV3L50	GV3L65	NS80HMA	NSX100HMA	NSX160HMA	NSX160HMA
Rotary handle						
50 KA	50 KA	50 KA	25 KA	50 KA	50 KA	50 KA
GV3L40	GV3L50	GV3L65	GK3EF80	NSX100NMA	NSX160NMA	NSX160NMA
GS2F	GS2F	GS2J	GS2J	GS2J	GS2K	GS2LL GS2L
14 x 51	14 x 51	22 x 58	22 x 58	22 x 58	22 x 58	T00 T0
40 A	50 A	80 A	100 A	100 A	125 A	160 A

LRD3363 LRD3365 LRD4367 LRD4369

LRD340 LRD350 LRD365 LR9D5369 LR9D5369

LRD340L LRD350L LRD365L LR2D3563 LR9D5569 LR9D5569



90 kW 110 kW 132 kW 160 kW


TeSys F contactor

185 A	225 A	265 A	330 A
275 A	315 A	350 A	400 A
LC1F185 ■■	LC1F225 ■■	LC1F265 ■■	LC1F330 ■■
70 KA	70 KA	70 KA	70 KA
GV7RS220	GV7RS220	NSX400H	NSX400H
		(1)	(1)
35 KA	35 KA	45 KA	45 KA
GV7RE220	GV7RE220	NSX400N	NSX400N
		(1)	(1)
70 KA	70 KA	70 KA	70 KA
NSX250HMA	NSX250HMA	NSX400H	NSX400H
		Micrologic 1.3-M	Micrologic 1.3-M
50 KA	50 KA	50 KA	50 KA
NSX250NMA	NSX250NMA	NSX400N	NSX400N
		Micrologic 1.3-M	Micrologic 1.3-M
GS2N	GS2N	GS2N	GS2QQ
T1	T1	T1	T2
200 A	250 A	315 A	400 A

LR9F5371 LR9F5371 LR9F7375 LR9F7375

LR9F5571 LR9F5571 LR9F7575 LR9F7575

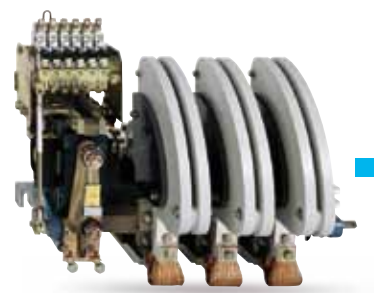
- 175
- VBF6
- VCCF6
- VCF6



Thermal current Ith (A)	25	32	50	125
Fuse type	8x32	10x38	14x51	22x58
Fuse carrier	1 pole	DF81	DF101	DF141
	2 poles	DF82	DF102	DF142
	3 poles	DF83	DF103	DF143



200 kW	250 kW	315 kW	400 kW	560 kW
400 A	500 A	630 A	800 A	1000 A
500 A	700 A	1000 A	1000 A	1250 A
LC1F400 ■■	LC1F500 ■■	LC1F630 ■■	LC1F800 □□	LC1F1000 ★★
70 KA	70 KA	70 KA	70 KA	70 KA
NSX630H	NSX630H	NS800H	NS800H	NS1000L
(1)	(1)	Micrologic 5.0	Micrologic 5.0	Micrologic 5.0
45 KA	45 KA	50 KA	50 KA	42 KA
NSX630N	NSX630N	NS800N	NS800N	NS1000L
(1)	(1)	Micrologic 5.0	Micrologic 5.0	Micrologic 5.0
70 KA	70 KA	70 KA	70 KA	70 KA
NSX630H	NSX630H	NS800H	NS800H	NS1000L
Micrologic 1.3-M	Micrologic 1.3-M	(2)	(2)	(2)
50 KA	50 KA	50 KA	50 KA	42 KA
NSX630N	NSX630N	NS800N	NS800N	NS1000L
Micrologic 1.3-M	Micrologic 1.3-M	(2)	(2)	(2)
GS2QQ	GS2S	GS2S	GS2V	GS2V
T2	T3	T3	T4	T4
500 A	500 A	630 A	800 A	1000 A



400 kW	500 kW	630 kW	800 kW	900 kW
TeSys B contactor (3)				
800 A	1000 A	1500 A	1500 A	1800 A
800 A	1250 A	2000 A	2000 A	2750 A
LC1BL33 □	LC1BM33 □	LC1BP33 □	LC1BP33 □	LC1BR33 □
70 KA	70 KA	70 KA	85 KA	85 KA
NS800H	NS1000H	NS1250H	NS1600H	NS2000H
Micrologic 5.0	Micrologic 5.0	Micrologic 5.0	Micrologic 5.0	Micrologic 5.0
50 KA	50 KA	50 KA	70 KA	70 KA
NS800N	NS1000N	NS1250N	NS1600N	NS2000N
Micrologic 5.0	Micrologic 5.0	Micrologic 5.0	Micrologic 5.0	Micrologic 5.0
70 KA	70 KA	70 KA	85 KA	85 KA
NS800H	NS1000H	NS1250H	NS1600H	NS2000H
(2)	(2)	(2)	(2)	(2)
50 KA	50 KA	50 KA	70 KA	70 KA
NS800N	NS1000N	NS1250N	NS1600N	NS2000N
(2)	(2)	(2)	(2)	(2)
GS2V	GS2V	GS2V	GS2V	GS2V
T4	T4	T4	T4	T4
800 A	1000 A	1250 A	2 x 800 A	2 x 1000 A

- LRD10 + CT5A/5VA
- LR9F7379
- LR9F7379
- LR9F7381
- LR9F7579
- LR9F7579
- LR9F7579

(1) Micrologic 2.3-M or Micrologic 6.3-M for advanced motor protection
 (2) Micrologic 5.0 + Plug LR Off
 (3) For further information, see TeSys B application notes available on: schneider-electric.com