



Product designation         Bower contactor Body           Contact type designation         Nr.         3           Contact haracteristics         Nr.         3           Rated insulation voltage Ui IEC/EN         V.         690           Rated insulation voltage Uimp         kV         6           Operational frequency         min         Hz         25           max         Hz         400           IEC Conventional free air thermal current Ith         A         20           Operational current Ie         AC-1 (≤40°C)         A         20           AC-1 (≤16°C)         A         18         AC-1 (≤16°C)         A         18           AC-2 (≤16°C)         A         18         AC-1 (≤16°C)         A         4           AC-2 (≤16°C)         A         4         4         4         4				
Product type designation   Signature	Product designation			Power contactor
Namber of poles   Namber of	<u> </u>			
Rated insulation voltage Ui IEC/EN         V         690           Rated impulse withstand voltage Uimp         kV         6           Operational frequency         min         Hz         25           IEC Conventional free air thermal current Ith         A         20           Operational current Ie         AC-1 (≤40°C)         A         20           AC-1 (≤55°C)         A         18         AC-1 (≤70°C)         A         15           AC-3 (≤4400 ≤55°C)         A         9         AC-4 (400V)         A         4           Rated operational power AC-3 (T≤55°C)         230V         kW         4         4           Rated operational power AC-3 (T≤40°C)         230V         kW         4				
Rated insulation voltage Ui IEC/EN         V         690           Rated impulse withstand voltage Uimp         kV         6           Operational frequency         min         Hz         25           IEC Conventional free air thermal current Ith         A         20           Operational current Ie         AC-1 (≤40°C)         A         20           AC-1 (≤55°C)         A         18         AC-1 (≤70°C)         A         15           AC-3 (≤4400 ≤55°C)         A         9         AC-4 (400V)         A         4           Rated operational power AC-3 (T≤55°C)         230V         kW         2.2         400V         kW         4           AC-3 (≤440V ≤55°C)         A         9         AC-4 (400V)         A         4         5         5         690V         kW         5         8         4         4         4         4         4         4         4         4         4         4         4	Number of poles		Nr.	3
Rated impulse withstand voltage Ulimp			V	690
Operational frequency         min max by Hz (ado)         Hz (ado)           IEC Conventional free air thermal current lth         A 20           Operational current le           AC-1 (≤40°C) A 20           AC-1 (≤55°C) A 18           AC-1 (≤55°C) A 15           AC-3 (≤440V ≤55°C) A 9           AC-4 (400V) A 4           Rated operational power AC-3 (T≤55°C)           230V kW 2.2           400V kW 4         4.15           415V kW 4.5         500V kW 5           500V kW 5         5           Rated operational power AC-1 (T≤40°C)           230V kW 8           400V kW 14         5           500V kW 15         5           EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series           ≤24V A 12         48V A 10           75V A 9         110V A 8           220V A -         220V A -           EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series           ≤24V A 15         48V A 16           48V A 16         75V A 16           52V A 16         75V A 10			kV	
EC Conventional free air thermal current lth				
EC Conventional free air thermal current lth		min	Hz	25
EC Conventional free air thermal current lith				
Operational current le         AC-1 (≤40°C)       A       20         AC-1 (≤55°C)       A       18         AC-1 (≤70°C)       A       15         AC-3 (≤440V ≤55°C)       A       9         AC-4 (400V)       A       4         AC-4 (400V)       A       4         AC-4 (400V)       KW       4         400V       kW       4         415V       kW       4.5         500V       kW       5         699V       kW       5         Rated operational power AC-1 (T≤40°C)       230V       kW       8         400V       kW       14       500V       kW       14         500V       kW       14       500V       kW       14         500V       kW       14       500V       kW       12         48V       A       12       48V       A       10         75V       A       9       110V       A       8         220V       A       -       110V       A       8         220V       A       -       110V       A       8         220V       A       -	IEC Conventional free air thermal current Ith			
AC-1 (≤40°C)				
AC-1 (≤55°C)	'	AC-1 (≤40°C)	Α	20
AC-1 (≤70°C)   A   15     AC-3 (≤440V ≤55°C)   A   9     AC-4 (400V)   A   4     Rated operational power AC-3 (T≤55°C)     230V   kW   2.2     400V   kW   4     415V   kW   4.3     440V   kW   4.5     500V   kW   5     690V   kW   5     809V   kW   16     690V   kW   16     690V   kW   2.2     EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series     S24V   A   12     48V   A   10     75V   A   4     110V   A   3     220V   A   -     EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series     S24V   A   15     48V   A   14     75V   A   9     110V   A   8     220V   A   -     EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series     S24V   A   15     48V   A   14     75V   A   9     110V   A   8     220V   A   -     EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series     S24V   A   15     48V   A   16     48V   A   10		,		
AC-3 (≤440V ≤55°C)   A   9     AC-4 (400V)   A   4     Rated operational power AC-3 (T≤55°C)     230V   kW   2.2     400V   kW   4     415V   kW   4.3     440V   kW   4.5     500V   kW   5     Rated operational power AC-1 (T≤40°C)     230V   kW   8     400V   kW   14     500V   kW   16     690V   kW   22     IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series		,		
Rated operational power AC-3 (T≤55°C)   230V   kW   2.2   400V   kW   4   415V   kW   4.3   440V   kW   4.5   500V   kW   5   690V   kW   5   690V   kW   5   690V   kW   5   690V   kW   14   500V   kW   14   500V   kW   14   500V   kW   16   690V   kW   22   EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series				
Rated operational power AC-3 (T≤55°C)  230V kW 2.2 400V kW 4 415V kW 4.3 440V kW 4.5 500V kW 5 690V kW 5  Rated operational power AC-1 (T≤40°C)  Rated operational power AC-1 (T≤40°C)  230V kW 8 400V kW 14 500V kW 14 500V kW 16 690V kW 22  IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series  ≤24V A 12 48V A 10 75V A 4 110V A 3 220V A -  IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series  ≤24V A 15 48V A 16 75V A 9 110V A 8 220V A -  IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series  ≤24V A 16 48V A 16		· · · · · · · · · · · · · · · · · · ·		
230V   kW   2.2   400V   kW   4   415V   kW   4.3   440V   kW   4.5   500V   kW   5   500V   kW   14   500V   kW   14   500V   kW   16   690V   kW   22   500V   kW   22   500V	Rated operational power AC-3 (T≤55°C)	- ( /		
400V   kW   4   415V   kW   4.3   440V   kW   4.5   500V   kW   5   509V   kW   14   500V   kW   14   500V   kW   16   690V   kW   22   509V   kW   23   509V   kW   24   509V   kW   25   509V   kW	1 1 ( /	230V	kW	2.2
415V   kW   4.3   440V   kW   4.5   500V   kW   5   690V   kW   5   500V   kW   14   500V   kW   14   500V   kW   16   690V   kW   22   500V   kW   23   500V   kW   24   500V   kW   24   500V   kW   24   500V   kW   25   500V   25   25   500V   25   25   25   25   25   25   25   2				
A440V   kW   4.5   500V   kW   5   690V   kW   690V   kW   14   690V   kW   14   690V   kW   22   690V   690V				
Soov   kW   5				
Rated operational power AC-1 (T≤40°C)    230V   kW   8   400V   kW   14   500V   kW   16   690V   kW   22				
EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series   S24V   A   12   48V   A   10   75V   A   4   110V   A   3   220V   A   15   48V   A   14   75V   A   9   110V   A   8   220V   A   −				
EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series   S24V   A   12   48V   A   10   75V   A   4   110V   A   3   220V   A   15   48V   A   14   75V   A   9   110V   A   8   220V   A   −	Rated operational power AC-1 (T≤40°C)			
A00V   kW   14   500V   kW   16   690V   kW   22	,	230V	kW	8
EC max current le in DC1 with L/R $\leq$ 1ms with 1 poles in series   $\leq$ 24V   A   12   48V   A   10   75V   A   4   110V   A   3   220V   A   -				
Section   Sec		500V	kW	
		690V	kW	22
	IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
T5V   A   4   110V   A   3   220V   A   -	·	≤24V	Α	12
T5V   A   4   110V   A   3   220V   A   -		48V	Α	
EC max current le in DC1 with L/R ≤ 1ms with 2 poles in series   ≤24V		75V	Α	
Section   Sec		110V	Α	3
		220V	Α	_
	IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		≤24V	Α	15
		48V		
		75V	Α	9
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series  ≤24V A 16 48V A 16 75V A 10		110V	Α	
≤24V A 16 48V A 16 75V A 10		220V	Α	_
≤24V A 16 48V A 16 75V A 10	IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
48V A 16 75V A 10	·	≤24V	Α	16
75V A 10				
		110V	Α	10





	220V	Α	2
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	16
	48V	Α	16
	75V	A	10
	110V	A	10
	220V	A	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	220 V		
ILO MAX current le in DO3-DO3 with L/IV 3 13ms with 1 poles in series	<b>~</b> 04\/	٨	7
	≤24V	A	7
	48V	Α	6
	75V	Α	2
	110V	Α	1
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	Α	8
	48V	Α	8
	75V	Α	5
	110V	Α	4
	220V	A	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	ZZU V		<del>-</del>
TEO may content to in 200-2003 with E/K > 13ms with 3 poles in series	-01V	۸	10
	≤24V	A	10
	48V	Α	10
	75V	Α	6
	110V	Α	5
	220V	Α	0,8
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	Α	10
	48V	Α	10
	75V	Α	6
	110V	Α	5
	220V	A	0,8
Short time allowable current for 10s (IEC/ENG0047.1)	220 V	A	96
Short-time allowable current for 10s (IEC/EN60947-1)		A	90
Protection fuse	. 0 (150)		00
	gG (IEC)	Α	20
	aM (IEC)	A	10
Making capacity (RMS value)		Α	92
Breaking capacity at voltage			
	440V	Α	72
	500V	Α	72
	690V	Α	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			. •
. 5.1.5. Glospation por poro (avorago valuo)	Ith	W	4
	AC-3	W	0.81
Tightoning targue for terminals	AU-3	٧٧	U.O I
Tightening torque for terminals			0.0
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	lbin	9
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	111111	15111	•





		max	Ibin	9
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			4.0
	<del></del>	max		12
	Flexible w/o lug conductor section			0.75
		min	mm²	0.75
	Florible alw lug conductor costion	max	mm²	2.5
	Flexible c/w lug conductor section	min	mm²	1.5
		min max	mm²	2.5
	Flexible with insulated spade lug conductor section		111111	2.3
	r lexible with insulated spade lug conductor section	min	mm²	1.5
		max	mm²	2.5
		max		IP20 when
Power terminal prote	ction according to IEC/EN 60529			properly wired
Mechanical features				, , ,
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
Fixing				35mm
Weight			g	212
Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact char	acteristics			
	40.0110.100			
Thermal current Ith			Α	10
Thermal current Ith IEC/EN 60947-5-1 de	esignation		Α	10 A600 - Q600
Thermal current Ith	esignation			A600 - Q600
Thermal current Ith IEC/EN 60947-5-1 de	esignation	230V	A	A600 - Q600 3
Thermal current Ith IEC/EN 60947-5-1 de	esignation	400V	A A	A600 - Q600 3 1.9
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC	esignation :15		A	A600 - Q600 3
Thermal current Ith IEC/EN 60947-5-1 de	esignation :15	400V 500V	A A A	A600 - Q600 3 1.9 1.4
Thermal current lth IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 115	400V	A A	A600 - Q600 3 1.9
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC	esignation 115	400V 500V 110V	A A A	A600 - Q600 3 1.9 1.4 2.9
Thermal current lth IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 115	400V 500V 110V 24V	A A A	A600 - Q600 3 1.9 1.4 2.9
Thermal current lth IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 115	400V 500V 110V 24V 48V	A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4
Thermal current lth IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 115	400V 500V 110V 24V 48V 60V	A A A A A	A600 - Q600  3 1.9 1.4 2.9 2.9 1.4 1.2
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 115	400V 500V 110V 24V 48V 60V 110V	A A A A A	A600 - Q600  3 1.9 1.4  2.9  2.9 1.4 1.2 0.6
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 115	400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A	A600 - Q600  3 1.9 1.4  2.9  2.9 1.4 1.2 0.6 0.55
Thermal current lth IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 115	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A	A600 - Q600  3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC	esignation 115	400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A	A600 - Q600  3 1.9 1.4  2.9  2.9 1.4 1.2 0.6 0.55
Thermal current lth IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 115	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	A600 - Q600  3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC	esignation 115	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A Cycles	A600 - Q600  3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 115	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	A600 - Q600  3 1.9 1.4  2.9  2.9 1.4 1.2 0.6 0.55 0.3 0.1
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC  Operating current DC  Operating current DC  Operating current DC  Operating current DC  Electrical life  Safety related data	esignation 115 112 113	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A Cycles	A600 - Q600  3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC  Operating current DC  Operating current DC  Operating current DC  Operating current DC  Electrical life  Safety related data	esignation 115	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A Cycles cycles	A600 - Q600  3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC  Operating current DC  Operating current DC  Operating current DC  Operating current DC  Electrical life  Safety related data	esignation 115 112 113 110d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A Cycles	A600 - Q600  3 1.9 1.4  2.9  2.9 1.4 1.2 0.6 0.55 0.3 0.1  20000000  500000
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC  Operating current DC  Operating current DC  Operating current DC  Operating current DC  Electrical life Electrical life Safety related data Performance level B	esignation 115 112 113 110d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A Cycles cycles	A600 - Q600  3 1.9 1.4  2.9  2.9  1.4 1.2 0.6 0.55 0.3 0.1  20000000  500000
Thermal current Ith IEC/EN 60947-5-1 de Operating current AC  Operating current DC  Operating current DC  Operating current DC  Operating current DC  Electrical life Electrical life Safety related data Performance level B	esignation 115 112 113 10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A Cycles cycles	A600 - Q600  3 1.9 1.4  2.9  2.9 1.4 1.2 0.6 0.55 0.3 0.1  20000000  500000  500000



DO					0.4
DC rated control voltage	je <u> </u>			V	24
DC operating voltage	niak un				
	pick-up		min	%Us	75
			max	%Us	115
	drop-out		max	7003	110
	arop out		min	%Us	10
			max	%Us	25
Average coil consump	tion ≤20°C				
			in-rush	W	3.2
			holding	W	3.2
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co					
	in AC				
		Closing NO			
			min	ms	12
		0	max	ms	21
		Opening NO	•		0
			min	ms	9
		Closing NC	max	ms	18
		Closing NC	min	ms	17
			max	ms	26
		Opening NC	max	1110	20
		opog	min	ms	7
			max	ms	17
	in DC				
		Closing NO			
			min	ms	18
			max	ms	25
		Opening NO			
			min	ms	2
		Olaska NO	max	ms	3
		Closing NC	min	me	3
			min max	ms ms	3 5
		Opening NC	max	1113	•
		Oponing 140	min	ms	11
			max	ms	17
UL technical data					
Full-load current (FLA)	for three-phase AC	C motor			
,	•		at 480V	Α	7.6
			at 600V	Α	6.1
Yielded mechanical pe					
	for single-phase A	AC motor			
			110/120V	HP	0.5
			230V	HP	1.5
	for three-phase A	C motor			
			200/208V	HP	2
			220/230V	HP	3
			460/480V 575/600V	HP HP	5 5
			313/000V	1.11	5





	AC current	Α	20
	Short circuit current	kA	100
	Fuse rating	Α	30
	Fuse class		J
nult			
	Short circuit current	kA	5
	Fuse rating	Α	30
	Fuse class		RK5
according to UL			A600 - Q600
emperature			
	min	°C	-50
	max	°C	+70
mperature			
	min	°C	-60
	max	°C	+80
		m	3000
			3
			EC000066 -
			Power contactor,
			AC switching
	according to UL emperature	Short circuit current Fuse rating Fuse class ault Short circuit current Fuse rating Fuse rating Fuse class according to UL  emperature min max mperature min	Short circuit current kA Fuse rating A Fuse class ault  Short circuit current kA Fuse rating A Fuse rating A Fuse class according to UL  emperature  min °C max °C mperature  min °C max °C