

Description			Modular contactor						Auxiliary contact
Standard conformity			EN61095						EN61095
Approvals			Contactor	Contactor	Contactor	Contactor	Contactor	Contactor	Contactor
Number of modules			1		2		3		1/2
Thermal current I _{th} (40°C)			16A	25A	16A	25A	40A	63A	6A
Rated frequency			50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz	50-60Hz	50-60 Hz	50-60 Hz
Rated insulation voltage (U _i)			500V	500V	500V	500V	500V	500V	250V
Rated impulse withstand voltage (U _{imp})			2.5kV	2.5kV	4kV	4kV	4kV	4kV	2.5kV
Protection Degree			2	2	2	2	2	2	2
Rated Operating currents and power ratings in AC									
AC-1/AC-7a	Rated operational currents I _e		16A	20A	25A	32A	40A	63A	
	Rated operabonal power	230V	3kW	3.6kW	4.6kW	5.8kW	7.3kW	11.6kW	
		400V	8.9KW	11KW	13.8kW	17.7kW	22kW	35kW	
AC-3/AC-7b	Rated operational currents I _e		6A	7A	9A	12A	18A	25A	
	Rated operational power	230V	620W	725W	931W	1.2KW	1.9KW	2.6kW	
		400V	1.9KW	2.2KW	2.8KW	3.7KW	5.6KW	7.8KW	
AC-12	“Rated operational currents I _e 230V”								5A
AC-15	“Rated operational currents I _e @ 230V”								2A
Mechanical and Electrical Endurances									
Mechanical endurance		“Number of operations”	2.000.000	2.000.000	2.000.000	2.000.000	2.000.000	2.000.000	2.000.000
“Electrical endurance G I _e AC7a (AC12 for aux contact)”		“Number of operations”	50.000	50.000	50.000	50.000	50.000	50.000	50.000
MCB Protected short-circuit withstand									
Prospected short-circuit curent		ms	1kA	3kA	3kA	3kA	3kA	3kA	1kA
Associated protection			MCB C16-6kA	MCB C20-6kA	MCB C25-6kA	MCB C32-6kA	MCB C40-6kA	MCB C63-6kA	6A 10x38 gG Fuse
Power dissipation									
Power dissipation per current path			1.2W	1.6W	1.2W	1.6W	2.1W	4.2W	0.4W
Magnotic system for Eco and standard contactor									
Pick-up			9.2VA	9.2VA	34VA	53VA	53VA	53VA	
Coil consumption			2.7VA	2.7VA	4.6VA	6.5VA	6.5VA	6.5VA	
Closing delay			22ms	22ms	22ms	22ms	22ms	22ms	
Opering delay			15ms	15ms	15ms	15ms	20ms	20ms	
Main contact cable section	Rigid		1.5...2.5mm²	1.5...2.5mm²	1.5...2.5mm²	1.5...2.5mm²	6...25mm²	6...25mm²	1...2.5mm²
	Flexible		1...4mm²	1...4mm²	1...4mm²	1...4mm²	6...16mm²	6...16mm²	1...4mm²
	Type		M3.5	M3.5	M3.5	M3.5	M5	M5	M3.5
Main contact connection screw	Posidrive		PZ1	PZ1	PZ1	PZ1	PZ2	PZ2	PZ1
	“Maxtight. torque”		0.8Nm	0.8Nm	0.8Nm	0.8Nm	3.5Nm	3.5Nm	0.8Nm
Coil connection cable section	Rigid		1...2.5mm²	1...2.5mm²	1...2.5mm²	1...2.5mm²	1...2.5mm²	1...2.5mm²	
	Hflexible		1...4mm²	1...4mm²	1...4mm²	1...4mm²	1...4mm²	1...4mm²	
	Type		M3.5	M3.5	M3.5	M3.5	M4	M4	
Coil connection screw	Posidrive		PZ1	PZ1	PZ1	PZ1	PZ1	PZ1	
	“Max.tight torque”		0.8Nm	0.8Nm	0.8Nm	0.8Nm	0.8Nm	0.8Nm	
Working temperature			-10°C to+50°C						
Storage temperature			-40°C to+70°C						

Light source type	The unit controls the power and the capacity of the power factor compensating capacitor		Single phase circuit maximum number of lamps and its maximum power output							
			SMC Contactor							
			16A	25A	40A	63A				
Incandescent lamp, low pressure halogen lamp										
Replacement of mercury lamp (without ballast)										
	40W	38	1550W to 2000W	57	2300W to 2850W	115	4600W to 5250W	172	6900W to 7500W	
	60W	30		45		85		125		
	75W	25		38		70		100		
	100W	19		28		50		73		
	150W	12		18		35		50		
	200W	10		14		26		37		
	300W	7	2100W	10	3000W	18	5500W to 6000W	25	7500W to 8000W	
	500W	4		6		10		15		
	1000W	2		3		6		8		
	1500W	1		2		4		5		
Electronic low voltage 12V or 24V halogen lamp										
with induction transformer	20W	15	300W to 600W	23	450W	42	850W to 1950W	63	1250W to 2850W	
	50W	10		15		27		42		
	75W	8		12		23		35		
	100W	6		8		18		27		
with electronic transformer	20W	62	1250W to 1600W	90	1850W to 2250W	182	3650W to 4200W	275	5500W to 6000W	
	50W	25		39		76		114		
	75W	20		28		53		78		
	100W	16		22		42		60		
Fluorescent lamp with starter inductor ballast										
single tube uncompensated (1)	15W	22	330W to 850W	30	450W to 1200W	70	1050W to 2400W	100	1500W to 3850W	
	18W	22		30		70		100		
	20W	22		30		70		100		
	36W	20		28		60		90		
	40W	20		28		60		90		
	58W	13		17		35		56		
	65W	13		17		35		56		
	80W	10		15		30		48		
	115W	7		10		20		32		
single tube With parallel compensation	15W	5μF	200W to 800W	20	300W to 1200W	40	600W to 2400W	60	900W to 3500W	
	18W	5μF		20		40		60		
	20W	5μF		20		40		60		
	36W	5μF		20		40		60		
	40W	5μF		20		40		60		
	58W	7μF		15		30		43		
	65W	7μF		15		30		43		
	80W	7μF		15		30		43		
	115W	16μF		5		7		14		20

2 or 4 tubes With parallel compensation	2×18W	30	1100W to 1500W	46	1650W to 2400W	80	2900W to 3800W	123	4450W to 5900W
	4×18W	16		24		44		68	
	2×36W	16		24		44		68	
	2×58W	10		16		27		42	
	2×65W	10		16		27		42	
	2×80W	9		13		22		34	
	2×115W	6		10		16		25	

Fluorescent lamp with electronic ballast

1 or 2 tubes	18W	74	1300W to 1400W	111	2000W to 2200W	222	4000W to 4400W	333	6000W to 6600W
	36W	38		58		117		176	
	58W	25		37		74		111	
	2×18W	36		55		111		166	
	2×36W	20		30		60		90	
	2×58W	12		19		38		57	

compact fluorescent lamp

Equipped with external electronic ballast	5W	210	1050W to 1300W	330	1650W to 2000W	670	3350W to 4000W	untested	
	7W	150		222		478			
	9W	122		194		383			
	11W	104		163		327			
	18W	66		105		216			
	26W	50		76		153			
Equipped with integrated electronic (Replace incandescent bulbs)	5W	160	800W to 900W	230	1150W to 1300W	470	2350W to 2600W	710	3550W to 3950W
	7W	114		164		335		514	
	9W	94		133		266		411	
	11W	78		109		222		340	
	18W	48		69		138		213	
	26W	34		50		100		151	

High-pressure mercury lamp without flip-flop, replacing high-pressure sodium lamp with inductive ballast and flip-flop

uncompensated (1)	50W	15	750W to 1000W	20	1000W to 1600W	34	1700W to 2800W	53	2650W to 4200W
	80W	10		15		27		40	
	125/110W (3)	8		10		20		28	
	250/220W (3)	4		6		10		15	
	400/350W (3)	2		4		6		10	
	700W	1		2		4		6	
With parallel compensation (2)	50W	7µF 10	500W to 1400W	15	750W to 1600W	28	1400W to 3500W	43	2150W to 5000W
	80W	8µF 9		13		25		38	
	125/110W (3)	10µF 9		10		20		30	
	250/220W (3)	18µF 4		6		11		17	
	400/350W (3)	25µF 3		4		8		12	
	700W	40µF 2		2		5		7	
	1000W	60µF 0		1		3		5	

Low pressure sodium lamp with inductor ballast and external trigger

uncompensated (1)	35W	5	270W to 360W	9	320W to 720W	14	500W to 1100W	24	850W to 1800W
	55W	5		9		14		24	
	90W	3		6		9		19	
	135W	2		4		6		10	
	180W	2		4		6		10	

With parallel compensation (2)	35W	20μF	3	100W to 180W	5	175W to 360W	10	350W to 720W	15	550W to 1100W
	55W	20μF	3		5		10		15	
	90W	26μF	2		4		8		11	
	135W	40μF	1		2		5		7	
	180W	45μF	1		2		4		6	
High pressure sodium lamp, metal halide lamp										
Equipped with inductor ballast and external	35W		16	600W	24	850W to 1200W	42	1450W to 2000W	64	2250W to 3200W
	70W		8		12		20		32	
uncompensated (1)	150W		4		7		13		18	
	250W		2		4		8		11	
	400W		1		3		5		8	
	1000W		0		1		2		3	
Equipped with inductor ballast and external	35W	6μF	12	450W to 1000W	18	650W to 2000W	31	1100W to 4000W	50	1750W to 6000W
	70W	12μF	6		9		16		25	
With parallel compensation (2)	150W	20μF	4		6		10		15	
	250W	32μF	3		4		7		10	
	400W	45μF	2		3		5		7	
	1000W	60μF	1		2		3		5	
	2000W	85μF	0		1		2		3	
Equipped with electronic ballast	35W		24	850W to 1350W	38	1350W to 2200W	68	2400W to 4000W	102	3600W to 6000W
	70W		18		29		51		76	
	150W		9		14		26		40	
With driver 	10W		48	500W to 1400W	69	700W to 1950W	98	1000W to 3000W	200	2000W to 6200W
	30W		38		54		77		157	
	50W		27		39		56		114	
	75W		17		25		36		73	
	150W		9		12		18		37	
	200W		7		9		15		31	

(1) Uncompensated inductor ballast circuits require twice current of the power output of lamp each

(2) The total capacitance of the paralleling power factor compensation capacitors limits the number of lamps controlled by a contactor. The total capacitance limits of the sub-circuits of standard contactor with rated power of 16A, 25A, 40A, and 63A cannot be exceeded by corresponding values of 75µF, 100µF, 200µF, and 300µF. If the value of the capacity is different from the value in the

(3) High-pressure mercury lamps with 120W, 250W and 400W power without triggers will gradually replace high-pressure sodium lamps with corresponding 110W, 220W and 350W power with triggers.