

Product specification sheet Metacon-Next

RGC EI(1) 60

fire rated roller shutter



FEATURES

Tested according	EN 1634-1
Classified according	EN 13501-2, EN 13501-1
CE marked according	EN 13241, EN 16034
Fire classification according EN 13501-2	EI(1) 30, EI(1) 60 EW 30, EW 60
Fire classification according EN 13501-1	B-s1, d0
CE certificate number	1812-CPR-1735
Min. dimensions (opening measures)	width 500 mm, height 500 mm, opening $\pm 0,25$ m ²
Max. dimensions (opening measures)	width 9.000 mm, height 8.000 mm, opening $\pm 32,5$ m ²
Cycles max. per day	10 cycles (max. measures 4.500 mm x 3.500 mm, w x h) 1 cycle (max. measures 8.000 mm x 3.500 mm, w x h)
Cycle test	C3 (> 50.000 cycles) (max. measures 4.500 mm x 3.500 mm, w x h) C1 (> 500 cycles) (max. measures 8.000 mm x 3.500 mm, w x h) <i>when height > 3.500 mm, max. advised 0 cycles per day; waiting door in open position</i>
Opening speed	± 90 mm/sec
Closing speed	± 90 mm/sec

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Slats

Height	147,5 mm
Thickness	43 mm
Weight	42 kg/m ²
Material	front; galvanized steel, thickness 1 mm back; composite pultrusion, thickness 42 mm, with fire-resistant filling, mixed white structure (approx. RAL 9002)
U value (theoretical insulation value)	2,11 W/m ² K

Side guides

Measures	width 177, 197, 217 or 237 mm per side, depth 90 mm
Material	galvanized steel

Consoles/brackets

Types	UNP S-80, S-100
Material	electro galvanized

Safety

Safety	safety catch device
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Installation surfaces

Permitted installation substrates	aerated concrete, sand-lime brick, concrete, masonry, fire-resistant steel construction
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OPTIONS

Indoor/outdoor application possible	yes
Wind class	till wind class 5 (> 1.000 Pa)
Cover box, galvanized, for roll and motor	yes
Burglary proof classification according EN 1627-1630	RC 3, RC 4 min. opening; 1.000 mm x 1.750 mm (w x h), 1,75 m ² max. opening; 6.000 mm x 8.000 mm (w x h), 30 m ²
Sound-insulating class according NEN-EN-ISO 10140	32 dB (when using single rubber profiles) 34 dB (when using double rubber profiles)
Liquid barrier	height 300 mm (classified on installation side, till max. opening width 4.500 mm) <i>please note: max. recommended usage frequency of 1 cycles per day</i>
Explosion proof (ATEX) version	marking according directive ATEX 114 - 2014/34/EU equipment group II for aboveground installation temperature class T3 - 190°C
Optional color parts by coating	various RAL, NCS, Sikkens colors (gloss level \pm 40%, layer thickness 80 to 100 μ)
Optional color composite slats by wrapping	RAL 9002, RAL 9006, RAL 7016, RAL 3000 (gloss level \pm 70%) (only for indoor application)

OPERATION (chain wheel motors and control box)



Self-closing chain wheel motors

Choice in type of limit switch

Control box

Required power supply

Cable length between control box and motor

Maximum cycles per day

Standard

Optional

Accumulator/batteries

Signaling

External switches

GFA FSN 15.20, FSN 25.20, FSN 50.20, FSN 110.18

DES (digital, most common), NES (mechanical)

Metacon-Next FirePro V4

3N~400 Vac +/- 10%, 50/60 Hz

3, 5, 7, 9, 11, 15, 25 meters

25 cycles

deadman's mode (hold switch, release to stop the door)

automatically operated (takeover contact), possible in conjunction with a set of light curtains

integrated battery in control box, prevents automatic closing in case of power failure, depending on condition of batteries \pm 4 hours

optical (LED) / acoustic (85 dB) signal integrated in control cabinet

push button switch up-down

key switch up-down

hand-held transmitter, 2-4 channel

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Specifications of GFA FSN motors

	FSN 15.20	FSN 25.20	FSN 50.20	FSN 110.18
Rated torque	150 Nm	250 Nm	500 Nm	1100 Nm
Drive speed (min ¹)	20 rpm	20 rpm	20 rpm	18 rpm
Limit switch range	20 (60)			
Connection voltage	3~230 / 400 V			
Connecting power	0,30 kW	0,45 kW	0,90 kW	1,10 kW
Locking torque	15 Nm	15 Nm	22 Nm	30 Nm
Operaring current	1,5 A	2,0 A	2,7 A	4,1 A
Operating frequency	50 Hz			
Shaft diameter	25 mm	30 mm	40 mm	50 mm
Max. cycles per hour	14	12	11	10
Power cable	5 x 1.5 mm ²			
Fuse	10 A (slow)			
Protection class	IP 54			
Operating temperature	- 10 °C ... + 40 °C			
Measures (w x d x h)/mm	167 x 558 x 340	210 x 651 x 382	257 x 750 x 408	320 x 897 x 464
Weight	26 kg	45 kg	70 kg	105 kg

Specifications control box Metacon-Next FirePro V4

type	specification
Weight	10 kg
Measures (w x d x h)	300 mm x 150 mm x 400 mm
Electricity consumption	max. 2.2 kW
Power supply	3N~400Vac +/- 10%, 50/60 Hz 3~230Vac +/- 10%, 50/60 Hz 1N~230Vac +/-10%, 50/60 Hz
Fuse	max. 6.3 A slow
Engine power	max. 2.2 kW
Power	max. 8.3 A
Brake	24 Vdc
Control voltage	24 Vdc
Control current	300 mA
External power supply	24 Vdc
Power external power	500 mA max
Relay outputs	potential-free changeover contacts
Load	max. ohmic load = 1 A / max. inductive load = 1 A
Battery	voltage, 12 Vdc / capacity, 5.2 Ah / lwxh, 90 x70 x 106 mm / brand, CSB battery / type, HR1221W / weight, 1.8 kg / technology, AGM
Protection class	IP 40
Ambient temperature	+ 5 °C ... + 40 °C
Relative humidity	max. 93% (non-condensing)
Vibration	vibration-free mounting (e.g. masonry wall)