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drive solutions for commercial doors

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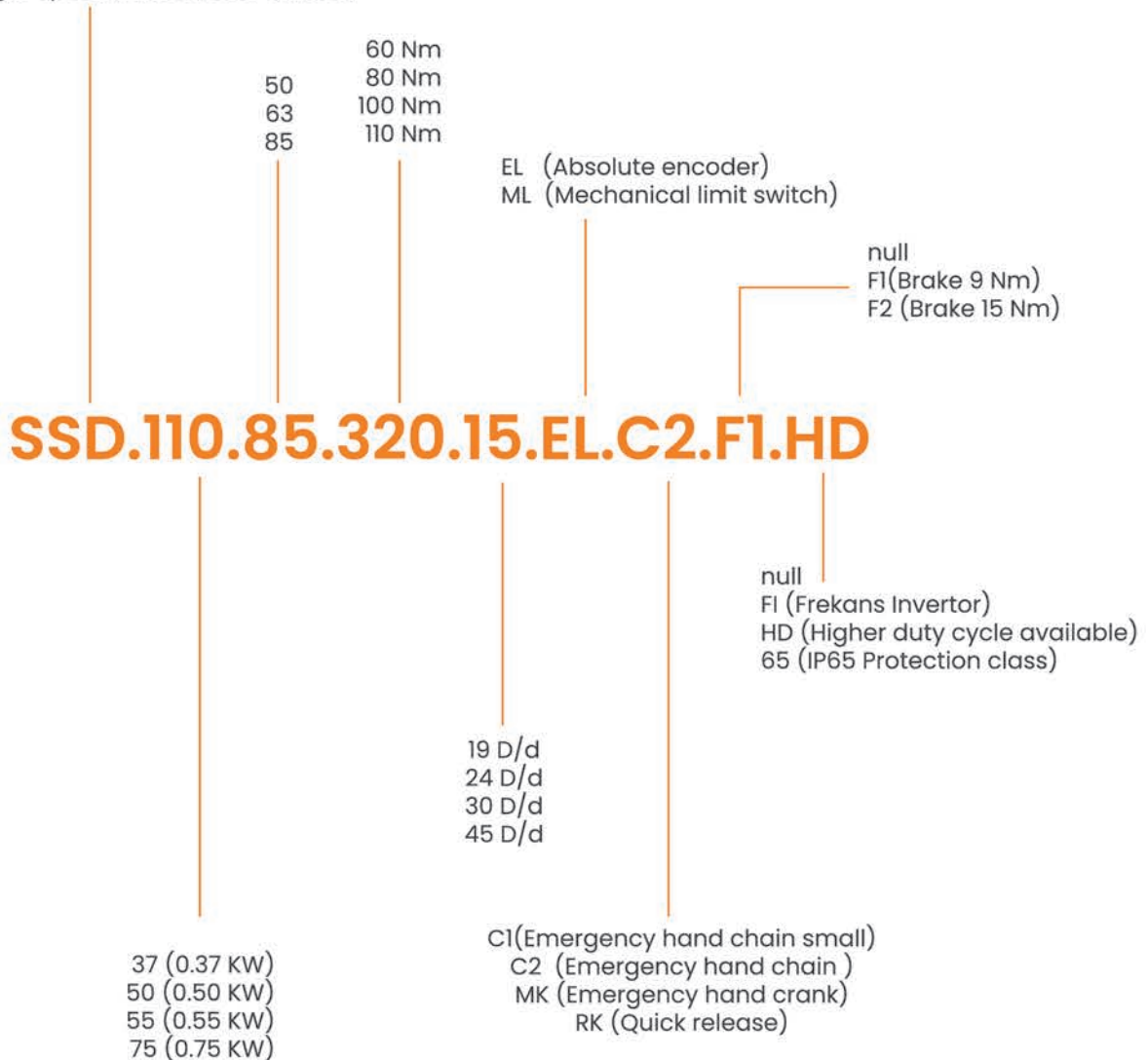
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We always think one step beyond and pay attention to generate professional solutions for modern requirements of our customers.



product key Information

SD (Spring-Balanced Sectional Doors)
SSD (Non-balanced Sectional Doors)
RD (Drives for Roller Shutters and Roller Grilles)
PS (High-Speed Drives Roller Shutter)



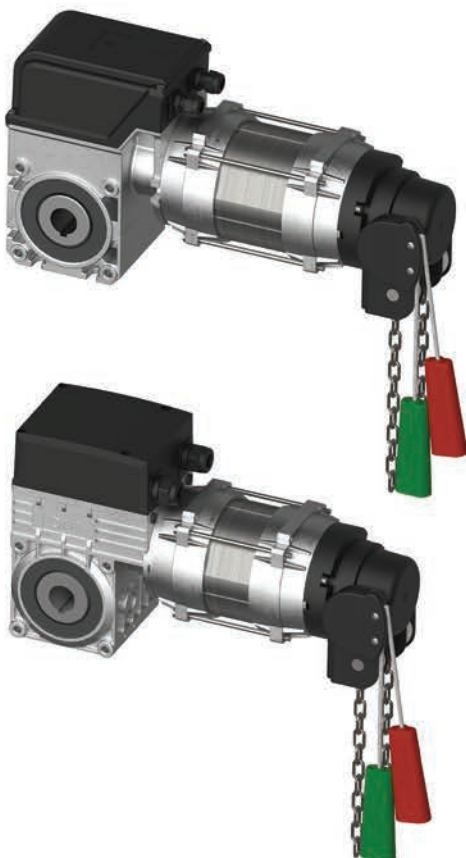
SD.55.50.130.24.EL.C1.HD

SD (Spring-Balanced Sectional Doors), 50 gear box type, 0,55 Kw,130 Nm, 24 Rpm, Absolute encoder.C1 Emergency hand chain small,HD (Higher duty cycle available)

PS.75.63.120.90.ML.C2.F1

PS (High-Speed Drives Roller Shutter) 63 gear box type, 0,75 Kw, 120 Nm, 90 Rpm, Mechanical limit switch. C2 Emergency hand chain ,Brake 9 Nm

SD SERIES sectional door drives for spring-balanced doors



- SD series are specifically developed for spring-balanced sectional doors and it is an excellent solution that achieves great things in small spaces. It meets all your needs with its specially designed gearbox, motor and manual drive mechanisms.
- Custom die-cast aluminum body.
- Hollow shaft drive output standard 25 mm; Optionally 25.4mm, 31.75mm, 35mm and 40mm solutions are available
- Instant position information with electronic limit-switch system.
- Optimum efficiency is provided at different speed and power levels.
- Allows different mounting conditions.
- Compatible with frequency converter.
- Fully compatible with the automation system.
- Thermal protection in motor windings.
- Manual emergency intervention system in the event of a power failure.
- High quality gearbox.
- Double worm shaft bearings.
- Special versions such as different voltages and frequencies, other drive motor speeds, higher protection classes and hollow shaft diameters on request.
- Cable of different sizes and versions available.

SD SERIES

sectional door drives for spring-balanced doors

ARFi SD 50 Serisi		37-50-100-24	55-50-100-30	55-50-110-24	55-50-140-20	75-50-100-48
Output torque	Nm	100	100	110	140	100
Output speed	rpm	24	30	24	20	48
Output shaft / hollow shaft (Ø) ¹	mm	Ø25,4	Ø25,4	Ø25,4	Ø25,4	Ø25,4
Door size in m ² ²	m ²	30	30	40	50	40
Motor power	kW	0,37	0,55	0,55	0,55	0,75
Operating voltage	V	3~230/400	3~230/400	3~230/400	3~230/400	3~230/400
Mains frequency	Hz	50	50	50	50	50
Motor current rating ³	A	1,9/1,1	2,8/1,6	2,8/1,6	3,1/1,8	3,6/2,1
Fuse protection, on site	A	10	10	10	10	10
Max. cycles per hour ⁴		20	20	20	20	30
Maximum output revolutions	rpm	20	20	20	16	20
Duty types	ED	S3-%60	S3-%60	S3-%60	S3-%60	S3-%60
IP protection class	IP	54	54	54	54	54
Temperature range ⁵	°C	-20 / +40 (+60)	-20 / +40 (+60)	-20 / +40 (+60)	-20 / +40 (+60)	-20 / +40 (+60)
Continuous sound pressure level	dB (A)	< 70	< 70	< 70	< 70	< 70

1- Additional hollow shafts-Ø 31.75 mm etc. can be made upon request.

2- The values in the table take into account a weight of 13 kg/m² and assume full spring balance. In some cases the friction may be greater and this must be taken into account when calculating the values.

3- The current in door drives can reach up to 4 times the rated operating current for limited times.

4- One cycle corresponds to two door movements (opening and closing). The specified values represent 10 revolutions of the drive shaft per movement and an even distribution is assumed. For other limit speed ranges or for heavily used doors, drag forces should be reduced. A motor with cooler and higher duty cycle should be selected. (Please ask).

5- Allowable temperature -20°C..+40°C (+60°C). When using the +40°C..+60°C temperature range, half of the maximum movements per hour should be used.



control units

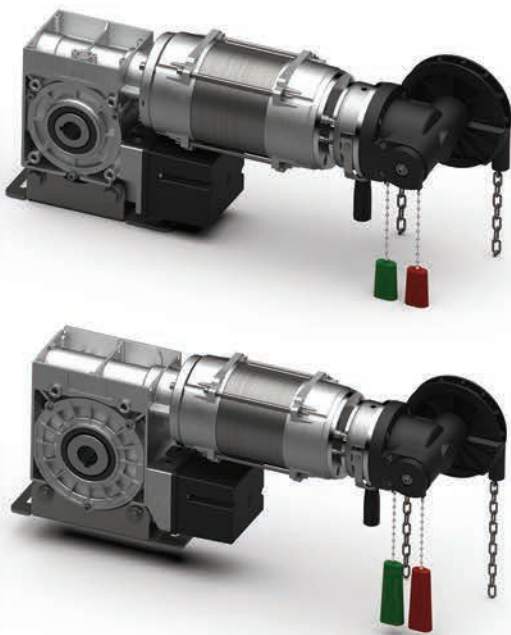
For every need we produce solutions



Used for	SD	SD-SSD	SD-SSD	SD-SSD	SD-SSD	PS-RD-SSD	PS-RD-SSD	PS-RD-SSD	PS-RD-SSD	PS-RD-SSD
Max. Load	0,75 kW	2,2 kW	0,75 kW	0,75 kW	0,75 kW	4 kW	0,75 kW	1,5 kW	1,5 kW	2,2 kW
Operating voltage	400 / 3~	400 / 3~	400 / 3~	400 / 3~	230 / 1~	400 / 3~	230 / 1~	230 / 1~	400 / 3~	400 / 3~
Kontaktör	-	✓	-	-	-	✓	-	-	-	-
Temperature range	-10 / +45	-10 / +45	-10 / +45	-10 / +45	-10 / +45	-10 / +45	-10 / +45	-10 / +45	-10 / +45	-10 / +45
Control voltage V	24 V	24 V	24 V	24 V	24 V	24 V	24 V	24 V	24 V	24 V
Mains frequency Hz	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60
With integrated frequency converter	-	-	-	-	✓	-	✓	✓	✓	✓
Setting Opening Speed	-	-	-	-	✓	-	✓	✓	✓	✓
Setting Closing Speed	-	-	-	-	✓	-	✓	✓	✓	✓
Additional 2nd. speed adjustable in CLOSING direction	-	-	-	-	✓	-	✓	✓	✓	✓
Separately adjustable beginning and end rotation speeds for both directions	-	-	-	-	✓	-	✓	✓	✓	✓
End position setting	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Mechanical limit switches	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
End position setting absolute encoder	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
LCD monitor with clear text display	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Illuminated buttons (find in the dark)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Emergency stop button	-	-	-	-	✓	✓	✓	✓	✓	✓
Connection for safety edge system (opto, air pressure safety edge or leading photoelectric)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Connections for radio module	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Programmable relay outputs with 14 functions	✓(1)	✓(2)	-	-	✓(1)	✓	✓	✓	✓	✓
Programmable traffic light function (two-way traffic)	✓	✓	-	-	✓	✓	✓	✓	✓	✓
Controlling a dock leveller with swing lip	-	-	✓	-	-	✓	✓	✓	✓	✓
Controlling a dock leveller with a telescoping lip	-	-	-	✓	-	✓	✓	✓	✓	✓
Integrated door operation counter	✓	✓	✓	✓	✓	✓	-	-	-	-
Integrated error memory	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

SSD SERIES

sectional door drives for doors without springs



- Does not need spring compensation. Eliminates spring maintenance. Easy to install.
- Parachute brake safety system is built into gearbox for doors that need to be secured against falling in case of gear failure.
- Custom die-cast aluminum body.
- Hollow shaft drive output standard 25,4 mm; Optionally 25 mm, 31.75mm, 35mm and 40mm solutions are available
- Instant position information with electronic limit-switch system.
- Optimum efficiency is provided at different speed and power levels.
- Allows different mounting conditions.
- Compatible with frequency converter.
- Fully compatible with the automation system.
- Thermal protection in motor windings.
- Manual emergency intervention system in the event of a power failure.
- High quality gearbox.
- Double worm shaft bearings.
- Special versions such as different voltages and frequencies, other drive motor speeds, higher protection classes and hollow shaft diameters on request.
- Cable of different sizes and versions available.

SSD SERIES

sectional door drives for doors without springs

ARFi SSD Series		55-50-140-20	55-63-180-15	55-63-200-19	110-63-180-23	110-85-280-24
Output torque	Nm	140	180	200	180	280
Output speed	rpm	20	15	19	23	24
Output shaft / hollow shaft (∅) ¹	mm	∅25,4	∅25,4	∅25,4	∅25,4	∅25,4/31,75
Max. holding torque ²	m2	140	180	200	180	280
Motor power	kW	0,55	0,55	0,75	1,1	1,1
Operating voltage	V	3~230/400	3~230/400	3~230/400	3~230/400	3~230/400
Mains frequency	Hz	50/60	50/60	50/60	50/60	50/60
Motor current rating ³	A	3,1/1,8	3,1/1,8	3,1/1,8	5,5/3,2	5,5/3,2
Fuse protection, on site	A	10	10	10	10	10
Max. cycles per hour ⁴		20	20	20	20	20
Maximum output revolutions	rpm	20	20	20	20	20
Duty types	ED	S3-%60	S3-%60	S3-%60	S3-%60	S3-%60
IP protection class	IP	54	54	54	54	54
Temperature range ⁵	°C	-20 / +60	-20 / +60	-20 / +60	-20 / +60	-20 / +60
Continuous sound pressure level	dB (A)	< 70	< 70	< 70	< 70	< 70

	110-85-300-15	150-85-400-24	110-85-450-15	110-85-600-15
Output torque	300	400	450	600
Output speed	15	24	15	15
Output shaft / hollow shaft (∅) ¹	∅25,4/31,75	∅25,4/31,75	∅25,4/31,75	∅ 30 / 40
Max. holding torque ²	300	400	450	600
Motor power	1,1	1,5	1,1	1,5
Operating voltage	3~230/400	3~230/400	3~230/400	3~230/400
Mains frequency	50/60	50/60	50/60	50/60
Motor current rating ³	5,5/3,2	5,5/3,2	3,9/2,8	5,5/3,6
Fuse protection, on site	10	10	10	10
Max. cycles per hour ⁴	20	20	20	20
Maximum output revolutions	20	20	20	20
Duty types	S3-%60	S3-%60	S3-%60	S3-%60
IP protection class	54	54	54	54
Temperature range ⁵	-20 / +60	-20 / +60	-20 / +60	-20 / +60
Continuous sound pressure level	< 70	< 70	< 70	< 70

1- Hollow shafts-∅ 31.75mm, 25mm, 30mm, 40 mm etc. can be made upon request.

2- Max. holding torque; Maximum torque that can act on the output shaft of the drive unit when the door is stationary

3- Max. current in door drives can reach up to 4 times the rated operating current for limited times.

4- One cycle corresponds to two door movements (opening and closing). The specified values represent 10 revolutions of the drive shaft per movement and an even distribution is assumed. For other limit speed ranges or for heavily used doors, drag forces must be reduced. A motor with cooler and higher duty cycle should be selected. (Please ask).

5- Allowable temperature -20°C..+40°C (+60°C). When using the +40°C..+60°C temperature range, half of the maximum movements per hour should be used.

SSD SERISI

Driver selection table for springless doors:

Using this table, the door drive can be determined easily and reliably.

SSD (Non-balanced Sectional Doors)	Cable drums					
	A160-6 - FF133-6		A200-6 - FF159-6		B158-6-25,4	
Drum Max Kg / Max Rope Diameter mm	500 / 6 - 650 / 8		500 / 6 - 650 / 8		600 / 6	
Max Door Opening Height (m)	9 - 7		14 - 12		6,5	
	Kg	V (cm/sn)	Kg	V (cm/sn)	Kg	V (cm/sn)
SSD 55-50-140-20	155	17,4	125	21,5	161	16,7
SSD 55-63-180-15	199	13,0	161	16,1	206	12,6
SSD 110-63-180-23	199	20,0	161	24,7	206	19,3
SSD 55-63-200-19	221	16,5	179	20,4	229	15,9
SSD 110-85-280-24	309	20,8	251	25,7	321	20,1
SSD 110-85-320-15	354	13,0	286	16,1	367	12,6
SSD 150-85-400-24	442	20,8	358	25,7	459	20,1
SSD 110-85-450-15	497	13,0	403	16,1	516	12,6
SSD 150-85-600-15	650	13,0	537	16,1	600	12,6

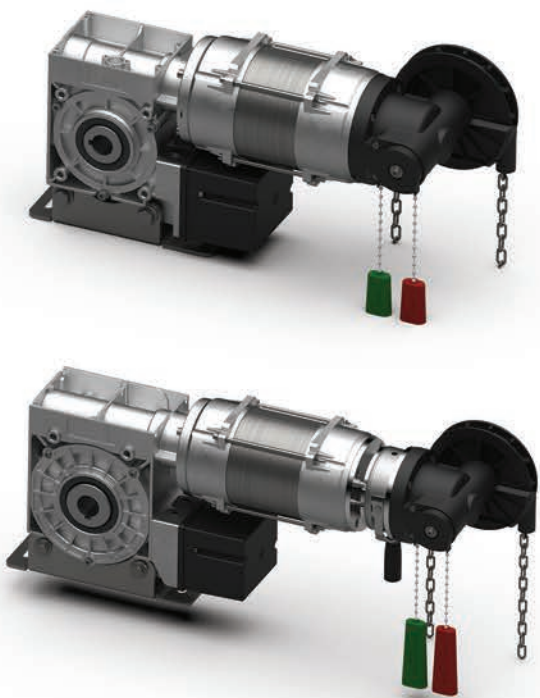
The values in the table take into account safety reserve of 10%.

In some cases, the friction may be greater and these values should be taken into account when calculating.

For VL vertically raised doors, reduce weight by 20% more.

Special solutions can be offered upon request. Please contact us for requests in different speeds and powers.

RD SERIES
roller shutters and rolling grilles



- Specially designed door drivers for heavy doors.
- Custom die-cast aluminum body.
- Hollow shaft drive output standard 25 mm; Optionally 25.4mm, 31.75mm, 35mm and 40mm solutions are available.
- Instant position information with electronic limit-switch system.
- Optimum efficiency is provided at different speed and power levels.
- Allows different mounting conditions.
- Compatible with frequency converter.
- Fully compatible with the automation system.
- Manual emergency intervention system in the event of a power failure.
- High quality gearbox.
- Double worm shaft bearings.
- High holding force thanks to additional electromagnetic brake.
- Thermal protection in motor windings.
- Special versions such as different voltages and frequencies, other drive motor speeds, higher protection classes and hollow shaft diameters on request.
- Cable of different sizes and versions available.

RD SERIES roller shutters and rolling grilles

ARFi SSD Serisi		37-50-120-15	55-63-180-15	55-63-220-12	55-85-250-10	110-85-320-15
Output torque	Nm	120	180	220	250	320
Output speed	rpm	15	15	12	10	15
Output shaft / hollow shaft (Ø) ¹	mm	Ø 25	Ø 25	Ø 25 / 30 / 40	Ø 30 / 40	Ø 30 / 40
Motor power	kW	0,37	0,55	0,55	0,55	1,1
Operating voltage	V	3~230/400	3~230/400	3~230/400	3~230/400	3~230/400
Mains frequency	Hz	50/60	50/60	50/60	50/60	50/60
Motor current rating ²	A	3,4/1,2	3,1/1,8	3,1/1,8	3,1/1,8	5,5/3,2
Fuse protection, on site	A	10	10	10	10	10
Max. cycles per hour ³		20	20	20	20	20
Maximum output revolutions	rpm	20	20	20	20	20
Duty types	ED	S3-%60	S3-%60	S3-%60	S3-%60	S3-%60
IP protection class	IP	54	54	54	54	54
Temperature range ⁴	°C	-20 / +60	-20 / +60	-20 / +60	-20 / +60	-20 / +60
Continuous sound pressure level	dB (A)	< 70	< 70	< 70	< 70	< 70

	75-85-350-10	110-85-450-15	150-85-600-15
Output torque	350	450	600
Output speed	10	15	15
Output shaft / hollow shaft (Ø) ¹	Ø 30 / 40	Ø 30 / 40	Ø 30 / 40
Motor power	0,75	1,1	1,5
Operating voltage	3~230/400	3~230/400	3~230/400
Mains frequency	50/60	50/60	50/60
Motor current rating ²	3,8/2,1	3,9/2,8	5,5/3,6
Fuse protection, on site	10	10	10
Max. cycles per hour ³	20	20	20
Maximum output revolutions	20	20	20
Duty types	S3-%60	S3-%60	S3-%60
IP protection class	54	54	54
Temperature range ⁴	-20 / +60	-20 / +60	-20 / +60
Continuous sound pressure level	< 70	< 70	< 70

1- Hollow shafts-Ø 31.75, 25, 30, 40 mm etc. can be made upon request.

2- Max. current in door drives can reach up to 4 times the rated operating current for limited times.

3- One cycle corresponds to two door movements (opening and closing). The specified values represent 10 revolutions of the drive shaft per movement and an even distribution is assumed. For other limit speed ranges or for heavily used doors, drag forces must be reduced. A motor with cooler and higher duty cycle should be selected. (Please ask).

4- Allowable temperature -20°C..+40°C (+60°C). When using the +40°C..+60°C temperature range, half of the maximum movements per hour should be used.

RD SERIES roller shutters and rolling grilles

Selection of suitable drivers for roller shutters:
To select the optimum drive solution, you will need the diameter of the winding shaft in mm and the suspended weight of the door in kg.
With the help of these parameters, the appropriate roller shutter drive can be determined easily and reliably using this table.

RD (Drives for Roller Shutters)	Diameter (Ø outside) of the winding shaft in mm								
	101,6	108,0	114,0	121,0	133,0	159,0	177,8	193,7	219,1
37-50-120-15	155	147	141	134	124	106	97	89	80
55-63-180-15	232	221	211	201	186	160	145	134	120
55-63-220-12	283	270	258	246	227	195	177	164	147
55-85-250-10	322	307	293	279	258	222	201	186	167
110-85-320-15	412	392	375	357	330	284	257	239	214
75-85-350-10	451	429	411	391	361	310	281	261	234
110-85-450-15	580	552	528	503	465	399	362	336	301
150-85-600-15	773	736	704	670	619	532	483	447	401

Maximum suspended weight in kg

All indicated weights in the table take into account a safety reserve of 20 % and a slat thickness of 25 mm.

In some cases, the friction may be greater and this condition should be taken into account when calculating.

Their extra friction and possible diameter changes due to over-winding, must be taken into account when calculating these values.

Special solutions can be offered upon request. Please contact us for requests in different speeds and powers.

PS SERIES

hight speed drivers roller shutter



- Everything has been considered so that your operational processes are not disrupted. Designed for all doors that require high speed and security.
- Custom die-cast aluminum body.
- Hollow shaft drive output standard 25 mm; Optionally 25.4mm, 31.75mm, 35mm and 40mm solutions are available.
- Instant position information with electronic limit-switch system.
- Optimum efficiency is provided at different speed and power levels.
- Allows different mounting conditions.
- Compatible with frequency converter.
- Fully compatible with the automation system.
- Manual emergency intervention system in the event of a power failure.
- High quality gearbox.
- Double worm shaft bearings.
- High holding force thanks to additional electromagnetic brake.
- Thermal protection in motor windings.
- Special versions such as different voltages and frequencies, other drive motor speeds, higher protection classes and hollow shaft diameters on request.
- Cable of different sizes and versions available.

PS SERIES high speed drivers roller shutter

PS Series	SUSPENDED WEIGHTS FLEXIBLE ROLL-UP DOOR PVC door max. load in kg at 50 Hz (87 Hz)										
Diameter (Ø outside) of the winding shaft in mm	88,9	101,6	108	114	121	133	140	159	177,8	193,7	219,1
75-50-100-48	172 (120)	152 (106)	143 (100)	136 (95)	128 (90)	117 (82)	112 (78)	99 (69)	89 (62)	82 (57)	72 (51)
55-50-040-95	69 (48)	61 (42)	57 (40)	54 (38)	51 (36)	47 (33)	45 (31)	40 (28)	35 (25)	33 (23)	29 (20)
75-50-050-95	86 (60)	76 (53)	72 (50)	68 (48)	64 (45)	59 (41)	56 (39)	49 (35)	44 (31)	41 (29)	36 (25)
75-50-040-140	70 (48)	62 (42)	58 (40)	55 (38)	52 (36)	48 (33)	46 (31)	41 (28)	36 (25)	34 (23)	30 (20)
110-50-050-140	86 (60)	76 (53)	72 (50)	68 (48)	64 (45)	59 (41)	56 (39)	49 (35)	44 (31)	41 (29)	36 (25)
110-63-090-90	155 (108)	136 (95)	129 (90)	122 (86)	116 (81)	106 (74)	101 (70)	89 (62)	80 (56)	74 (51)	65 (46)
150-63-120-90	206 (144)	182 (127)	172 (120)	163 (114)	154 (108)	141 (99)	134 (94)	119 (83)	106 (75)	98 (69)	87 (61)
110-63-060-135	103 (72)	91 (64)	86 (60)	82 (57)	77 (54)	70 (49)	67 (47)	59 (42)	53 (37)	49 (34)	43 (30)
150-63-080-135	137 (96)	121 (85)	114 (80)	109 (76)	103 (72)	94 (66)	89 (63)	79 (55)	71 (50)	65 (46)	58 (41)
220-85-200-90 HD	344 (241)	303 (212)	286 (200)	272 (190)	257 (180)	235 (164)	223 (156)	198 (138)	177 (124)	163 (114)	145 (101)
300-85-250-90 HD	430 (301)	379 (265)	358 (250)	340 (238)	321 (225)	293 (205)	279 (195)	247 (173)	222 (155)	204 (143)	181 (127)
220-85-120-135 HD	206 (144)	182 (127)	172 (120)	163 (114)	154 (108)	141 (99)	134 (94)	119 (83)	106 (75)	98 (69)	87 (61)
300-85-160-135 HD	275 (192)	243 (170)	229 (160)	217 (152)	205 (144)	188 (131)	179 (125)	158 (111)	142 (99)	131 (91)	116 (81)

The values in the table take into account the 20% safety reserve and the 6 mm strip thickness.

PS Series	SUSPENDED WEIGHTS ROLLER SHUTTER PVC door max. load in kg at 50 Hz (87 Hz)										
Diameter (Ø outside) of the winding shaft in mm	88,9	101,6	108	114	121	133	140	159	177,8	193,7	219,1
75-50-100-48	150 (105)	134 (94)	127 (89)	122 (85)	116 (81)	107 (75)	102 (71)	91 (64)	82 (58)	76 (53)	68 (48)
55-50-040-95	60 (42)	54 (38)	51 (36)	49 (34)	46 (32)	43 (30)	41 (29)	36 (26)	33 (23)	31 (21)	27 (19)
75-50-050-95	75 (52)	67 (47)	64 (45)	61 (43)	58 (40)	53 (37)	51 (36)	46 (32)	41 (29)	38 (27)	34 (24)
75-50-040-140	60 (42)	54 (38)	51 (36)	49 (34)	46 (32)	43 (30)	41 (29)	36 (26)	33 (23)	31 (21)	27 (19)
110-50-050-140	75 (52)	67 (47)	64 (45)	61 (43)	58 (40)	53 (37)	51 (36)	46 (32)	41 (29)	38 (27)	34 (24)
110-63-090-90	135 (94)	121 (85)	115 (80)	110 (77)	104 (73)	96 (67)	92 (64)	82 (57)	74 (52)	69 (48)	61 (43)
150-63-120-90	180 (126)	161 (113)	153 (107)	146 (102)	139 (97)	128 (90)	122 (86)	109 (77)	99 (69)	92 (64)	82 (57)
110-63-060-135	90 (63)	80 (56)	76 (54)	73 (51)	69 (49)	64 (45)	61 (43)	55 (38)	49 (35)	46 (32)	41 (29)
150-63-080-135	120 (84)	107 (75)	102 (71)	97 (68)	93 (65)	85 (60)	82 (57)	73 (51)	66 (46)	61 (43)	55 (38)
220-85-200-90 HD	300 (210)	268 (188)	255 (178)	243 (170)	231 (162)	213 (149)	204 (143)	182 (128)	165 (115)	153 (107)	136 (95)
300-85-250-90 HD	374 (262)	335 (235)	319 (223)	304 (213)	289 (202)	267 (187)	255 (178)	228 (159)	206 (144)	191 (134)	171 (119)
220-85-120-135 HD	180 (126)	161 (113)	153 (107)	146 (102)	139 (97)	128 (90)	122 (86)	109 (77)	99 (69)	92 (64)	82 (57)
300-85-160-135 HD	240 (168)	215 (150)	204 (143)	195 (136)	185 (130)	171 (119)	163 (114)	146 (102)	132 (92)	122 (85)	109 (76)

The values in the table take into account the 20% safety reserve and the 20 mm strip thickness.

In certain cases, for example, additional door seals or profiles for double skin, friction may be greater. Extra friction and possible diameter changes due to over-winding in the first place should be taken into account when calculating these values.

The PS -FI series is for operation with a frequency converter. PS FI series, max. frequency in weight table. is 87 Hz Special solutions can be offered upon request. Please contact us for requests in different speeds and powers.

NOTE: When taking the diameter of the winding pipe, if you are winding the PVC for a few idle turns, take into account the diameter on it.

PS SERIES

hight speed drivers roller shutter

ARFi PS 50 Series		75.50.100.48	55.50.40.95	75.50.50.95	75.50.40.140	110.50.50.140
Output torque	Nm	100	40	50	40	50
Output speed	rpm	48	95	95	140	140
Output shaft (∅) ¹	mm	25 / 25,4 / 30	25 / 30	25 / 30	25 / 30	25 / 30
Motor power	kW	0,75	0,55	0,75	0,75	1,1
Operating voltage	V	3~230/400	3~230/400	3~230/400	3~230/400	3~230/400
Mains frequency	Hz	50/60	50/60	50/60	50/60	50/60
Motor current rating ²	A	3,6/2,1	2,8/1,6	3,6/2,1	3,6/2,1	5,5/3,2
Fuse protection, on site	A	10	10	10	10	10
Max. cycles per hour ³		20	45	45	45	45
Maximum output revolutions	rpm	20	20	20	20	20
Duty types	ED	S3-%60	S3-%60	S3-%60	S3-%60	S3-%60
IP protection class	IP	54	54	54	54	54
Temperature range ⁴	°C	-20 / +60	-20 / +60	-20 / +60	-20 / +60	-20 / +60
Continuous sound pressure level	dB (A)	< 70	< 70	< 70	< 70	< 70
ARFi PS 63 Series		110.63.90.90	150.63.120.90	110.60.135	150.63.80.135	
Output torque	Nm	90	120	60	80	
Output speed	rpm	90	90	135	135	
Output shaft (∅) ¹	mm	25 / 30	25 / 30	25 / 30	25 / 30	
Motor power	kW	1,1	1,5	1,1	1,5	
Operating voltage	V	3~230/400	3~230/400	3~230/400	3~230/400	
Mains frequency	Hz	50/60	50/60	50/60	50/60	
Motor current rating ²	A	5,5 / 3,2	6,4 / 3,3	5,5 / 3,2	6,4 / 3,3	
Fuse protection, on site	A	10	10	10	10	
Max. cycles per hour ³		45	45	45	45	
Maximum output revolutions	rpm	20	20	20	20	
Duty types	ED	S3-%60	S3-%60	S3-%60	S3-%60	
IP protection class	IP	54	54	54	54	
Temperature range ⁴	°C	-20 / +60	-20 / +60	-20 / +60	-20 / +60	
Continuous sound pressure level	dB (A)	< 70	< 70	< 70	< 70	
ARFi PS 85 Series		220.85.200.90	300.85.250.90	220.85.120.135	300.85.160.135	
Output torque	Nm	90	120	60	80	
Output speed	rpm	90	90	135	135	
Output shaft (∅) ¹	mm	25 / 30	25 / 30	25 / 30	25 / 30	
Motor power	kW	1,1	1,5	1,1	1,5	
Operating voltage	V	3~230/400	3~230/400	3~230/400	3~230/400	
Mains frequency	Hz	50/60	50/60	50/60	50/60	
Motor current rating ²	A	5,5 / 3,2	6,4 / 3,3	5,5 / 3,2	6,4 / 3,3	
Fuse protection, on site	A	10	10	10	10	
Max. cycles per hour ³		45	45	45	45	
Maximum output revolutions	rpm	20	20	20	20	
Duty types	ED	S3-%60	S3-%60	S3-%60	S3-%60	
IP protection class	IP	54	54	54	54	
Temperature range ⁴	°C	-20 / +60	-20 / +60	-20 / +60	-20 / +60	
Continuous sound pressure level	dB (A)	< 70	< 70	< 70	< 70	

1- Additional hollow shafts-∅ can be made upon request.
2- Max. the current in the gate drives can reach up to 4 times the rated operating current for limited times.
3- One cycle corresponds to two door movements (opening and closing). The specified values represent 10 revolutions of the drive shaft per movement and an even distribution is assumed. For other limit speed ranges or for heavily used doors, drag forces should be reduced. A motor with cooler and higher duty cycle should be selected. (Please ask).
4- Allowable temperature -20°C..+40°C (+60°C). When using the +40°C..+60°C temperature range, half of the maximum movements per hour should be used.
For drives with external electromagnetic brakes, Brake inspection should always be performed by qualified service engineers. If frequency inverter drives are to be used, increasing the driving speed by 10% causes a 5% reduction in drive torque. This should be taken into account when choosing a motor.

options



C1-Emergency Hand Chain



C2-Emergency Hand Chain



F2-Brake



F3-Brake



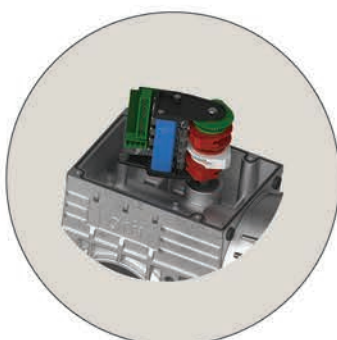
MK-Emergency Hand Crank



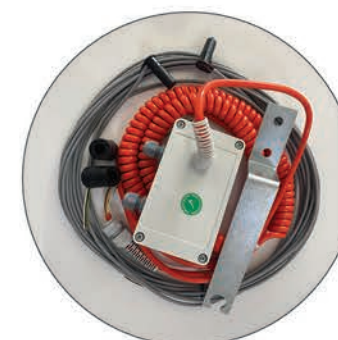
Chain Transfer Mechanism



Electronic Limit Switct



Mechanical Limit Switct



Optical Sensor



Cable

drive solutions for commercial doors

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