

PRODUCT NOTE

System pro E control

IS2 New Range Extension

H1400 and H1600



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ABB completes its offer of cabinets for automation with the IS2 series in the height of 1400mm and 1600mm, also available in kit version.

The IS2 enclosures are suitable for making electrical automation, control and operation enclosures, with the possibility of constructing batteries of cabinets side by side to control complex industrial plants. They are suitable for floor mounting with the possibility of lateral and rear access and adjustment of the back plate position.

Cabinet with blind or glazed door

The frame of the enclosure consists of galvanised sheet uprights and pickled sheet panelling with a minimum thickness of 1,5mm. The parts made of pickled sheet are painted with 60÷70 micron thick polyester epoxy powder paint of standard medium orange peel grey RAL 7035. The painting can be worked (drilled) without chipping and other colours are also available on request for the IS2 kit version.

Equipotentiality of the structure is obtained automatically during the assembly stage.

Placing two or more structures side by side is a simple operation, using the minimum possible number of accessories. The structure can be fitted with accessories as follows:

- Vertical blind separator between columns, which ensures the degree of protection
- Separator for 24-pole connectors (staggered assembly between the rows) and relative accessories (closure plates, reduction for the 16-10-6 pole versions).

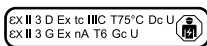
The dimensions referred to conform to DIN 41488, and should be considered as external.

Uprights

The upright section is of the closed type and provides excellent resistance to mechanical stresses whilst still keeping the max. dimensions of 47x47mm.

They are drilled with 25mm pitch (in conformity

Technical characteristics

Conformity with the Standard	IEC 62208, IEC 60439-1, IEC 61439-1-2	
Degree of protection	IP65 (IEC 60529) with fixed flange TYPE 12 (UL Standard)	
Degree of mechanical strength	IK10 blind door	
	IK09 glazed door (IEC 62262)	
Certifications	 	
Type of material	Metallic	
Installation site	Indoors	
Fixing method	floor	
Normal service conditions – ambient temperature	from -5 to +40° C	
Operating climate (t°/rh%)	constant	23°C/83% - 40°C/93%
	variable	23°C/98% - 40°C/98%
Vibration test	In accordance with Standard IEC 60068-2-57	
Seismic withstand capability test	In accordance with Standard IEE Std 693	



with the DIN 43660 Standard) and allow the accessories to be fixed using M6 self-threading screws and cage nuts. The multipurpose hinges for fixing the doors allow several structures to be placed side by side, and also to make corner batteries.

Base, top and plinth

The base has openings which allow cable entry from below, and has different types of flanges:

- sliding, complete with gasket
- build-up with different sizes to be removed or drilled
- fixed blind flanges, (2,00mm thickness), which can be drilled to house fairlead membranes or for direct entry of large cable bundles.

Various types of plinths are available

- Standard

2,5mm angle pieces + 1,00mm flange made of pickled sheet and painted grey orange peel RAL 7012 colour, H=100mm. The flanges are supplied loose. Their assembly is carried out from the front of the enclosure, using two self-threading screws. The angle pieces are fixed to the structure with two bolts placed diagonally to prevent any rotations during handling. Handling can be carried out using transpallet seven when there are two structures side by side.

- Double height

of H=200mm: this keeps the same characteristics as the previous one and consists of two superimposed angle pieces H=100mm and relative cover flange H=100mm.

Accessories

The reversible type doors (right or left opening) are made of 2,00mm thick pickled sheet, and can be mounted on the four sides with an opening angle of 120° for the front ones, even in the case of several structures side by side. The handle can be fitted with different types of key locks.

The structure of the large mounting plate is particularly sturdy and made of galvanised sheet (2,5mm thick), mounted on sliding blocks.

Other fastening systems for rack 19" are available, provided with new accessories available on ABB Technical catalogue.

- Fixed: fastening systems for rack 19" with fixed cranked shaped profile uprights at full height in enclosure W=600mm and W=800mm, capacity 29/33 HE.
- Partial fixed: fastening systems for rack 19" with fixed cranked shaped profile uprights at partial height in enclosure W=600mm and W=800mm, capacity 9/18/27 HE. Codes available on ABB Technical catalogue.

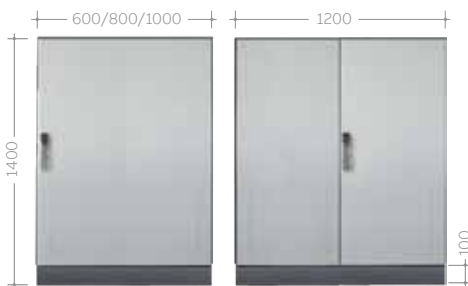
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IS2 height 1400mm



H = 1400mm structures with glass door

Description	Dimensions		PRE ASSEMBLED	KIT STRUCTURE			
	W (mm)	D (mm)	Structure	Upright	Base/Top	Rear panel	Single glass door
Glass door	600	400	1STQ005355B0000	EM1400	EK6040KN	EP1460K	1STQ005328B0000
Glass door	800	300	1STQ005354B0000	EM1400	1STQ005318B0000	EP1480K	1STQ005329B0000
Glass door	800	400	1STQ005356B0000	EM1400	EK8040KN	EP1480K	1STQ005329B0000



H = 1400mm structures with blind door

Description	Dimensions		PRE ASSEMBLED	KIT STRUCTURE				Single blind door or first blind door in case of double door	Single glass door or second blind door in case of double door
	W (mm)	D (mm)	Structure	Upright	Base/Top	Rear panel			
Blind door	400	400	1STQ005349B0000	EM1400	EK4040KN	EP1440K		EC1440K	-
Blind door	400	600	1STQ005361B0000	EM1400	EK4060KN	EP1440K		EC1440K	-
Blind door	400	800	1STQ005365B0000	EM1400	EK4080KN	EP1440K		EC1440K	-
Blind door	600	300	1STQ005346B0000	EM1400	1STQ005317B0000	EP1460K		EC1460K	1STQ005328B0000
Blind door	600	400	1STQ005350B0000	EM1400	EK6040KN	EP1460K		EC1460K	1STQ005328B0000
Blind door	600	500	1STQ005357B0000	EM1400	EK6050KN	EP1460K		EC1460K	1STQ005328B0000
Blind door	600	600	1STQ005362B0000	EM1400	EK6060KN	EP1460K		EC1460K	1STQ005328B0000
Blind door	600	800	1STQ005366B0000	EM1400	EK6080KN	EP1460K		EC1460K	1STQ005328B0000
Blind door	800	300	1STQ005347B0000	EM1400	1STQ005318B0000	EP1480K		EC1480K	1STQ005329B0000
Blind door	800	400	1STQ005351B0000	EM1400	EK8040KN	EP1480K		EC1480K	1STQ005329B0000
Blind door	800	500	1STQ005358B0000	EM1400	EK8050KN	EP1480K		EC1480K	1STQ005329B0000
Blind door	800	600	1STQ005363B0000	EM1400	EK8060KN	EP1480K		EC1480K	1STQ005329B0000
Blind door	800	800	1STQ005367B0000	EM1400	EK8080KN	EP1480K		EC1480K	1STQ005329B0000
Blind door	1000	300	1STQ005348B0000	EM1400	1STQ005319B0000	1STQ005320B0000		1STQ005321B0000	-
Blind door	1000	400	1STQ005352B0000	EM1400	EK1040KN	1STQ005320B0000		1STQ005321B0000	-
Blind door	1000	500	1STQ005359B0000	EM1400	EK1050KN	1STQ005320B0000		1STQ005321B0000	-
Blind double door	1200	400	1STQ005353B0000	EM1400	EK1240KN	EP1412K		ED1412SK	EC1480FC6K
Blind double door	1200	500	1STQ005360B0000	EM1400	EK1250KN	EP1412K		ED1412SK	EC1480FC6K
Blind double door	1200	600	1STQ005364B0000	EM1400	EK1260KN	EP1412K		ED1412SK	EC1480FC6K
Blind double door	1200	800	1STQ005368B0000	EM1400	EK1280KN	EP1412K		ED1412SK	EC1480FC6K

Side panel	Standard Mounting Plate	Oversized Mounting Plate + rails	Fixed Cable entry Flanges	Sliding Cable entry Flanges	Build-up Cable entry Flanges	Plinth Flanges Front/rear	Plinth Flanges Side	19" Fixed cranked shaped uprights Frame+Fixing kit
EL1440K	EA1460	EA1560	EF6043	EF6040	EF6041	ZN6000	ZN4000	1STQ005332B0000+EB6000
1STQ005322B0000	EA1480	EA1580	1STQ005427B0000	-	-	ZN8000	ZN3000	1STQ005332B0000+EB8000
EL1440K	EA1480	EA1580	EF8042	EF8040	EF8041	ZN8000	ZN4000	1STQ005332B0000+EB8000

Side panel	Standard Mounting Plate	Oversized Mounting Plate + rails	Fixed Cable entry Flanges	Sliding Cable entry Flanges	Build-up Cable entry Flanges	Plinth Flanges Front/rear	Plinth Flanges Side	19" Fixed cranked shaped uprights Frame+Fixing kit
EL1440K	EA1440	EA1540	EF4042	EF4040	EF4041	ZN4000	ZN4000	-
EL1460K	EA1440	EA1540	EF4063	EF4060	EF4061	ZN4000	ZN6000	-
EL1480K	EA1440	EA1540	EF4082	EF4080	EF4081	ZN4000	ZN8000	-
1STQ005322B0000	EA1460	EA1560	1STQ005426B0000	-	-	ZN6000	ZN3000	1STQ005332B0000+EB6000
EL1440K	EA1460	EA1560	EF6043	EF6040	EF6041	ZN6000	ZN4000	1STQ005332B0000+EB6000
1STQ005323B0000	EA1460	EA1560	EF6052	EF6050	EF6051	ZN6000	ZN5000	1STQ005332B0000+EB6000
EL1460K	EA1460	EA1560	EF6062	EF6060	EF6061	ZN6000	ZN6000	1STQ005332B0000+EB6000
EL1480K	EA1460	EA1560	EF6082	EF6080	EF6081	ZN6000	ZN8000	1STQ005332B0000+EB6000
1STQ005322B0000	EA1480	EA1580	1STQ005427B0000	-	-	ZN8000	ZN3000	1STQ005332B0000+EB8000
EL1440K	EA1480	EA1580	EF8042	EF8040	EF8041	ZN8000	ZN4000	1STQ005332B0000+EB8000
1STQ005323B0000	EA1480	EA1580	EF8052	EF8050	EF8051	ZN8000	ZN5000	1STQ005332B0000+EB8000
EL1460K	EA1480	EA1580	EF8062	EF8060	EF8061	ZN8000	ZN6000	1STQ005332B0000+EB8000
EL1480K	EA1480	EA1580	EF8082	EF8080	EF8081	ZN8000	ZN8000	1STQ005332B0000+EB8000
1STQ005322B0000	EA1411	-	1STQ005428B0000	-	-	ZN1000	ZN3000	-
EL1440K	EA1411	-	EF1042	EF1040	EF1041	ZN1000	ZN4000	-
1STQ005323B0000	EA1411	-	EF1052	EF1053	EF1051	ZN1000	ZN5000	-
EL1440K	EA1412	EA1512	2xEF6043	2xEF6040	2xEF6041	2xZN6000	ZN4000	-
1STQ005323B0000	EA1412	EA1512	2xEF6052	2xEF6051	2xEF6051	2xZN6000	ZN5000	-
EL1460K	EA1412	EA1512	2xEF6062	2xEF6060	2xEF6061	2xZN6000	ZN6000	-
EL1480K	EA1412	EA1512	2xEF6082	2xEF6080	2xEF6081	2xZN6000	ZN8000	-

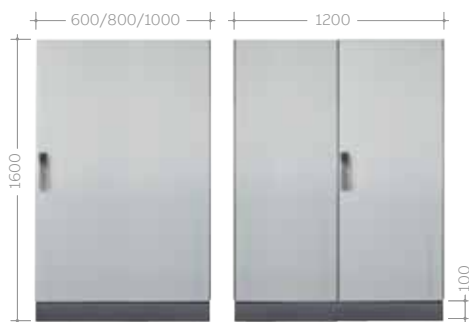
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IS2 height 1600mm



H = 1600mm structures with glass door

Description	Dimensions		PRE ASSEMBLED	KIT STRUCTURE			
	W (mm)	D (mm)	Structure	Upright	Base/Top	Rear panel	Single glass door
Glass door	600	400	1STQ005375B0000	EM1600	EK6040KN	EP1660K	1STQ005330B0000
Glass door	800	400	1STQ005376B0000	EM1600	EK8040KN	EP1680K	1STQ005331B0000



H = 1600mm structures with blind door

Description	Dimensions		PRE ASSEMBLED	KIT STRUCTURE			Single blind door or first blind door in case of double door	Single glass door or second blind door in case of double door
	W (mm)	D (mm)	Structure	Upright	Base/Top	Rear panel		
Blind door	400	500	1STQ005377B0000	EM1600	EK4050KN	EP1640K	EC1640K	-
Blind door	400	600	1STQ005382B0000	EM1600	EK4060KN	EP1640K	EC1640K	-
Blind door	400	800	1STQ005387B0000	EM1600	EK4080KN	EP1640K	EC1640K	-
Blind door	400	1000	1STQ005392B0000	EM1600	EK4010KN	EP1640K	EC1640K	-
Blind door	600	300	1STQ005369B0000	EM1600	1STQ005317B0000	EP1660K	EC1660K	1STQ005330B0000
Blind door	600	400	1STQ005371B0000	EM1600	EK6040KN	EP1660K	EC1660K	1STQ005330B0000
Blind door	600	500	1STQ005378B0000	EM1600	EK6050KN	EP1660K	EC1660K	1STQ005330B0000
Blind door	600	600	1STQ005383B0000	EM1600	EK6060KN	EP1660K	EC1660K	1STQ005330B0000
Blind door	600	800	1STQ005388B0000	EM1600	EK6080KN	EP1660K	EC1660K	1STQ005330B0000
Blind door	600	1000	1STQ005393B0000	EM1600	EK6010KN	EP1660K	EC1660K	1STQ005330B0000
Blind door	800	300	1STQ005370B0000	EM1600	1STQ005318B0000	EP1680K	EC1680K	1STQ005331B0000
Blind door	800	400	1STQ005372B0000	EM1600	EK8040KN	EP1680K	EC1680K	1STQ005331B0000
Blind door	800	500	1STQ005379B0000	EM1600	EK8050KN	EP1680K	EC1680K	1STQ005331B0000
Blind door	800	600	1STQ005384B0000	EM1600	EK8060KN	EP1680K	EC1680K	1STQ005331B0000
Blind door	800	800	1STQ005389B0000	EM1600	EK8080KN	EP1680K	EC1680K	1STQ005331B0000
Blind door	800	1000	1STQ005394B0000	EM1600	EK8010KN	EP1680K	EC1680K	1STQ005331B0000
Blind door	1000	400	1STQ005373B0000	EM1600	EK1040KN	EP1610K	EC1610K	-
Blind door	1000	500	1STQ005380B0000	EM1600	EK1050KN	EP1610K	EC1610K	-
Blind door	1000	600	1STQ005385B0000	EM1600	EK1060KN	EP1610K	EC1610K	-
Blind door	1000	800	1STQ005390B0000	EM1600	EK1080KN	EP1610K	EC1610K	-
Blind door	1000	1000	1STQ005395B0000	EM1600	EK1010KN	EP1610K	EC1610K	-
Blind double door	1200	400	1STQ005374B0000	EM1600	EK1240KN	EP1612K	ED1612SK	EC1680FC6K
Blind double door	1200	500	1STQ005381B0000	EM1600	EK1250KN	EP1612K	ED1612SK	EC1680FC6K
Blind double door	1200	600	1STQ005386B0000	EM1600	EK1260KN	EP1612K	ED1612SK	EC1680FC6K
Blind double door	1200	800	1STQ005391B0000	EM1600	EK1280KN	EP1612K	ED1612SK	EC1680FC6K

Side panel	Standard Mounting Plate	Oversized Mounting Plate + rails	Fixed Cable entry Flanges	Sliding Cable entry Flanges	Build-up Cable entry Flanges	Plinth Flanges Front/rear	Plinth Flanges Side	19" Fixed cranked shaped uprights Frame+Fixing kit
1STQ005325B0000	EA1616	EA1760	EF6043	EF6040	EF6041	ZN6000	ZN4000	1STQ005333B0000+EB6000
1STQ005325B0000	EA1619	EA1780	EF8042	EF8040	EF8041	ZN8000	ZN4000	1STQ005333B0000+EB8000

Side panel	Standard Mounting Plate	Oversized Mounting Plate + rails	Fixed Cable entry Flanges	Sliding Cable entry Flanges	Build-up Cable entry Flanges	Plinth Flanges Front/rear	Plinth Flanges Side	19" Fixed cranked shaped uprights Frame+Fixing kit
EL1650K	EA1640	EA1740	EF4052	EF4050	EF4051	ZN4000	ZN5000	-
EL1660K	EA1640	EA1740	EF4063	EF4060	EF4061	ZN4000	ZN6000	-
EL1680K	EA1640	EA1740	EF4082	EF4080	EF4081	ZN4000	ZN8000	-
EL1610K	EA1640	EA1740	EF4082	EF4080	EF4081	ZN4000	ZN1000	-
1STQ005324B0000	EA1616	EA1760	1STQ005426B0000	-	-	ZN6000	ZN3000	1STQ005333B0000+EB6000
1STQ005325B0000	EA1616	EA1760	EF6043	EF6040	EF6041	ZN6000	ZN4000	1STQ005333B0000+EB6000
EL1650K	EA1616	EA1760	EF6052	EF6050	EF6051	ZN6000	ZN5000	1STQ005333B0000+EB6000
EL1660K	EA1616	EA1760	EF6062	EF6060	EF6061	ZN6000	ZN6000	1STQ005333B0000+EB6000
EL1680K	EA1616	EA1760	EF6082	EF6080	EF6081	ZN6000	ZN8000	1STQ005333B0000+EB6000
EL1610K	EA1616	EA1760	EF6082	EF6080	EF6081	ZN6000	ZN1000	1STQ005333B0000+EB6000
1STQ005324B0000	EA1619	EA1780	1STQ005427B0000	-	-	ZN8000	ZN3000	1STQ005333B0000+EB8000
1STQ005325B0000	EA1619	EA1780	EF8042	EF8040	EF8041	ZN8000	ZN4000	1STQ005333B0000+EB8000
EL1650K	EA1619	EA1780	EF8052	EF8050	EF8051	ZN8000	ZN5000	1STQ005333B0000+EB8000
EL1660K	EA1619	EA1780	EF8062	EF8060	EF8061	ZN8000	ZN6000	1STQ005333B0000+EB8000
EL1680K	EA1619	EA1780	EF8082	EF8080	EF8081	ZN8000	ZN8000	1STQ005333B0000+EB8000
EL1610K	EA1619	EA1780	EF8082	EF8080	EF8081	ZN8000	ZN1000	1STQ005333B0000+EB8000
1STQ005325B0000	EA1610	EA1710	EF1042	EF1040	EF1041	ZN1000	ZN4000	-
EL1650K	EA1610	EA1710	EF1052	EF1053	EF1051	ZN1000	ZN5000	-
EL1660K	EA1610	EA1710	EF1062	EF1060	EF1061	ZN1000	ZN6000	-
EL1680K	EA1610	EA1710	EF1062	EF1060	EF1061	ZN1000	ZN8000	-
EL1610K	EA1610	EA1710	EF1082	EF1080	EF1081	ZN1000	ZN1000	-
1STQ005325B0000	EA1612	EA1712	2xEF6043	2xEF6040	2xEF6041	2xZN6000	ZN4000	-
EL1650K	EA1612	EA1712	2xEF6052	2xEF6051	2xEF6051	2xZN6000	ZN5000	-
EL1660K	EA1612	EA1712	2xEF6062	2xEF6060	2xEF6061	2xZN6000	ZN6000	-
EL1680K	EA1612	EA1712	2xEF6082	2xEF6080	2xEF6081	2xZN6000	ZN8000	-

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Due to possible developments of standards as well as of materials, the characteristics and dimensions specified in this document may only be considered binding after confirmation by ABB SACE.

