






		Motor rating AC-3, 400 V kW	Part number	Enclosure dimensions WxHxD (mm)	Overload relay required
<b>Direct-on-line starters – compact – insulated enclosures – protection standard IP65</b>					
	3-phase	4	D4E/12/3P+N(230V50Hz)	100x180x100	ZE-...
		4	D4E/12/3P(400V50Hz)	100x180x100	ZE-...
	Single-phase	0.75 max rating	D4E/12/1P+N(230V50Hz)	100x180x100	ZE-... (see Note 2 below)





		Motor rating AC-3, 400 V kW	Part number (See Note 1 below)	Enclosure dimensions WxHxD (mm)	Overload relay required
<b>Direct-on-line starters – insulated enclosures – protection standard IP65</b>					
	Without isolator	4	XD4/I	120x222x125	ZB12-...
		5.5	XD5,5/I	120x222x125	ZB12-...
		7.5	XD7,5/I	120x222x125	ZB12-...
		11	XD11/I	160x240x160	ZB32-...
		15	XD15/I	160x240x160	ZB32-...
		18.5	XD18,5/I	187.5x250x175	ZB65-...
		22	XD22/I	187.5x250x175	ZB65-...
	With isolator	4	XDP4/I	120x222x160	ZB12-...
		5.5	XDP5,5/I	120x222x160	ZB12-...
		7.5	XDP7,5/I	160x240x160	ZB12-...
		11	XDP11/I	160x240x160	ZB32-...
		15	XDP15/I	160x240x160	ZB32-...
		18.5	XDP18,5/I	375x250x175	ZB65-...
		22	XDP22/I	375x250x175	ZB65-...
		30	XDP30/I	375x250x175	ZB65-...

		Motor rating AC-3, 400 V kW	Part number	Enclosure dimensions WxHxD (mm)	Overload relay required
<b>Direct-on-line starters – sheet steel enclosures – protection standard IP55</b>					
	Without isolator	4	XD4/ST	104x174x134	ZB12-...
		5.5	XD5,5/ST	104x174x134	ZB12-...
		7.5	XD7,5/ST	104x174x134	ZB12-...
		11	XD11/ST	184x184x149	ZB32-...
		15	XD15/ST	184x184x149	ZB32-...
		18.5	XD18,5/ST	300x300x200	ZB65-...
		22	XD22/ST	300x300x200	ZB65-...
	With isolator	4	XDP4/ST	184x184x149	ZB12-...
		5.5	XDP5,5/ST	184x184x149	ZB12-...
		7.5	XDP7,5/ST	184x184x149	ZB12-...
		11	XDP11/ST	184x184x149	ZB32-...
		15	XDP15/ST	184x184x149	ZB32-...
		18.5	XDP18,5/ST	300x300x200	ZB65-...
		22	XDP22/ST	300x300x200	ZB65-...
		30	XDP30/ST	300x300x200	ZB65-...

**Notes**

1 Add control voltage, either "(230V50Hz)" or "(400V50Hz)".

2 For single-phase motors, always select the overload relay according to the exact full-load current on the motor rating plate. See page 8 for ZE overload relays.






		Motor rating AC-3, 400 V kW	Part number (See Note 1 below)	Enclosure dimensions WxHxD (mm)	Overload relay required
<b>Direct-on-line reversing starters – insulated enclosures – protection standard IP65</b>					
	Without isolator	4	XDR4/I	160x240x160	ZB12-...
		5.5	XDR5,5/I	160x240x160	ZB12-...
	With isolator	4	XDRP4/I	200x280x160	ZB12-...
		5.5	XDRP5,5/I	200x280x160	ZB12-...
<b>Direct-on-line reversing starters – sheet steel enclosures – protection standard IP55</b>					
	Without isolator	4	XDR4/ST	184x184x149	ZB12-...
		5.5	XDR5,5/ST	184x184x149	ZB12-...
	With isolator	4	XDRP4/ST	284x184x149	ZB12-...
		5.5	XDRP5,5/ST	284x184x149	ZB12-...

**Notes**

1 Add control voltage, either "(230V50Hz)" or "(400V50Hz)".





		Motor rating AC-3, 400 V kW	Part number (See Note 1 below)	Enclosure dimensions WxHxD (mm)	Overload relay required (See Note 2 below)
<b>Star-delta starters – insulated enclosures – protection standard IP65</b>					
	Without isolator	5.5	XSD5,5/I	200x280x160	ZB12-...
		7.5	XSD7,5/I	200x280x160	ZB12-...
		11	XSD11/I	200x280x160	ZB12-...
		15	XSD15/I	200x280x160	ZB32-...
		22	XSD22/I	250x375x175	ZB32-...
		30	XSD30/I	250x375x175	ZB32-...
		37	XSD37/I	250x375x225	ZB65-...
		45	XSD45/I	250x375x225	ZB65-...
	With isolator	5.5	XSDP5,5/I	375x250x150	ZB12-...
		7.5	XSDP7,5/I	375x250x150	ZB12-...
		11	XSDP11/I	375x250x150	ZB12-...
		15	XSDP15/I	375x250x150	ZB32-...
		22	XSDP22/I	375x375x175	ZB32-...
		30	XSDP30/I	375x375x175	ZB32-...
		37	XSDP37/I	375x375x225	ZB65-...
		45	XSDP45/I	375x375x225	ZB65-...
<b>Star-delta starters – sheet steel enclosures – protection standard IP55</b>					
	Without isolator	5.5	XSD5,5/ST	284x184x149	ZB12-...
		7.5	XSD7,5/ST	284x184x149	ZB12-...
		11	XSD11/ST	284x184x149	ZB12-...
		15	XSD15/ST	284x184x149	ZB32-...
		22	XSD22/ST	300x300x200	ZB32-...
		30	XSD30/ST	300x300x200	ZB32-...
		37	XSD37/ST	300x300x200	ZB65-...
		45	XSD45/ST	300x300x200	ZB65-...
		55	XSD55/ST	300x400x200	ZB65-...
	With isolator	5.5	XSDP5,5/ST	284x184x149	ZB12-...
		7.5	XSDP7,5/ST	284x184x149	ZB12-...
		11	XSDP11/ST	284x184x149	ZB12-...
		15	XSDP15/ST	285x305x159	ZB32-...
		22	XSDP22/ST	400x400x200	ZB32-...
		30	XSDP30/ST	400x400x200	ZB32-...
		37	XSDP37/ST	400x400x200	ZB65-...
		45	XSDP45/ST	400x400x200	ZB65-...
		55	XSDP55/ST	400x400x200	ZB65-...
		75	XSDP75/ST	500x500x200	ZB150-...
<b>Star-delta starters – open chassis</b>					
	Without isolator	5.5	SDAINLM12	158x68x117	ZB12-...
		7.5	SDAINLM16	158x68x117	ZB12-...
		11	SDAINLM22	158x68x117	ZB12-...
		15	SDAINLM30	158x85x138	ZB32-...
		22	SDAINLM45	158x85x138	ZB32-...
		30	SDAINLM55	158x85x138	ZB32-...
		37	SDAINLM70	188x115x147	ZB65-...
		45	SDAINLM90	188x115x147	ZB65-...
		55	SDAINLM115	188x115x147	ZB65-...
		75	SDAINLM140	308x314x183	ZB150-...
		90	SDAINLM165	308x314x183	ZB150-...
		110	SDAINLM200	308x314x183	ZB150-...
132	SDAINLM260	308x314x183	ZB150-...		

**Notes**

1 Add control voltage, either "(230V50Hz)" or "(400V50Hz)".

2 Star-delta selection based on overload relay being mounted directly below main or delta contactor. Set relay to 0.58 x rated motor current.