

Asynchronous motors

Dimension drawings

1PH7 motors with two-speed gearbox Forced ventilation

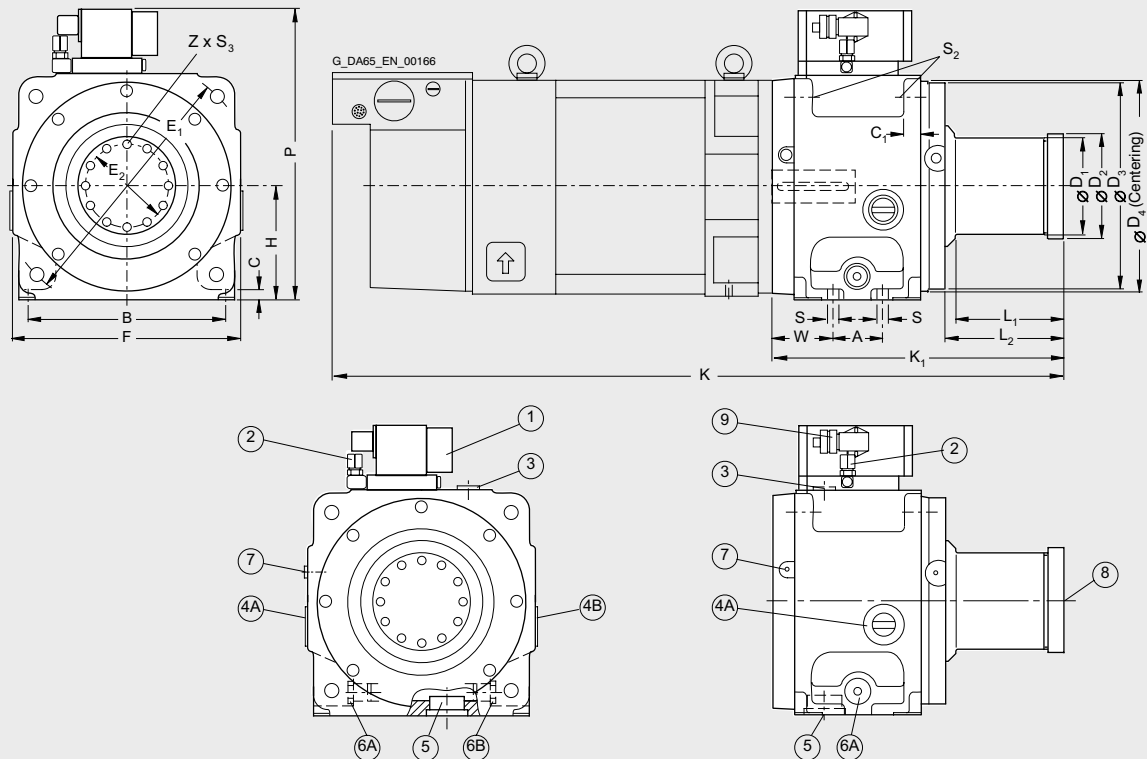
For motor		Gearbox Dimensions in mm (in)											
Shaft height	Type	A	B	C	C ₁	D ₁	D ₂	D ₃	D ₄	E ₁	E ₂	F	H
1PH7 with two-speed gearbox, type IM B35, forced ventilation													
100	1PH7101 1PH7103 1PH7105 1PH7107	55 (2.17)	184 (7.24)	12 (0.47)	18 (0.71)	100 (3.94)	100 (3.94)	188 (7.40)	190 (7.48)	215 (8.46)	80 (3.15)	208 (8.19)	108 (4.25)
132	1PH7131 1PH7133 1PH7135 1PH7137	58 (2.28)	234 (9.21)	12 (0.47)	20 (0.79)	116 (4.57)	118 (4.65)	249 (9.80)	250 (9.84)	300 (11.81)	100 (3.94)	270 (10.63)	136 (5.35)
160	1PH7163 1PH7167	58 (2.28)	290 (11.42)	17 (0.67)	20 (0.79)	140 (5.51)	130 (5.12)	249 (9.80)	250 (9.84)	350 (13.78)	100 (3.94)	326 (12.83)	164 (6.46)
Motor		Gearbox Dimensions in mm (in)										Total length motor-gearbox	
Shaft height	Type	K ₁	L ₁	L ₂	P	S	S ₂	S ₃	Z	W	K		
100	1PH7101 1PH7103 1PH7105 1PH7107	298 (11.73)	–	116 (4.57)	301 (11.85)	14 (0.55)	14 (0.55)	M8	8	63 (2.48)	709 (27.91) 804 (31.65)		
132	1PH7131 1PH7133 1PH7135 1PH7137	346.5 (13.64)	129.5 (5.10)	142.5 (5.61)	346 (13.62)	14 (0.55)	18 (0.71)	M12	12	71 (2.80)	885 (34.84) 970 (38.19)		
160	1PH7163 1PH7167	346.5 (13.64)	–	142.5 (5.61)	402 (15.83)	14 (0.55)	18 (0.71)	M12	12	71 (2.80)	987 (38.86) 1024 (40.31)		

Dimensions for 1PH7184, 1PH7186 and 1PH7224 on request.

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1PH7 motors with two-speed gearbox
Forced ventilation



① Switching unit (lifting solenoid 24 V DC, 5 A).

② Ventilation valve.

③ Oil filling bolt.

④A Oil level inspection window or oil return for counterclockwise rotation and circulating-oil lubrication.

④B Oil level inspection window or oil return for clockwise rotation and circulating-oil lubrication.

⑤ Oil drain bolt for type IM B35.

⑥A Oil inlet for clockwise rotation and circulating-oil lubrication.

⑥B Oil inlet for counterclockwise rotation and circulating-oil lubrication.

⑦ Oil inlet for type IM V15 (must be connected).

⑧ Oil inlet for type IM V35.

⑨ Connector, manufacture: Harting, type HAN 8 U.

Asynchronous motors

Dimension drawings

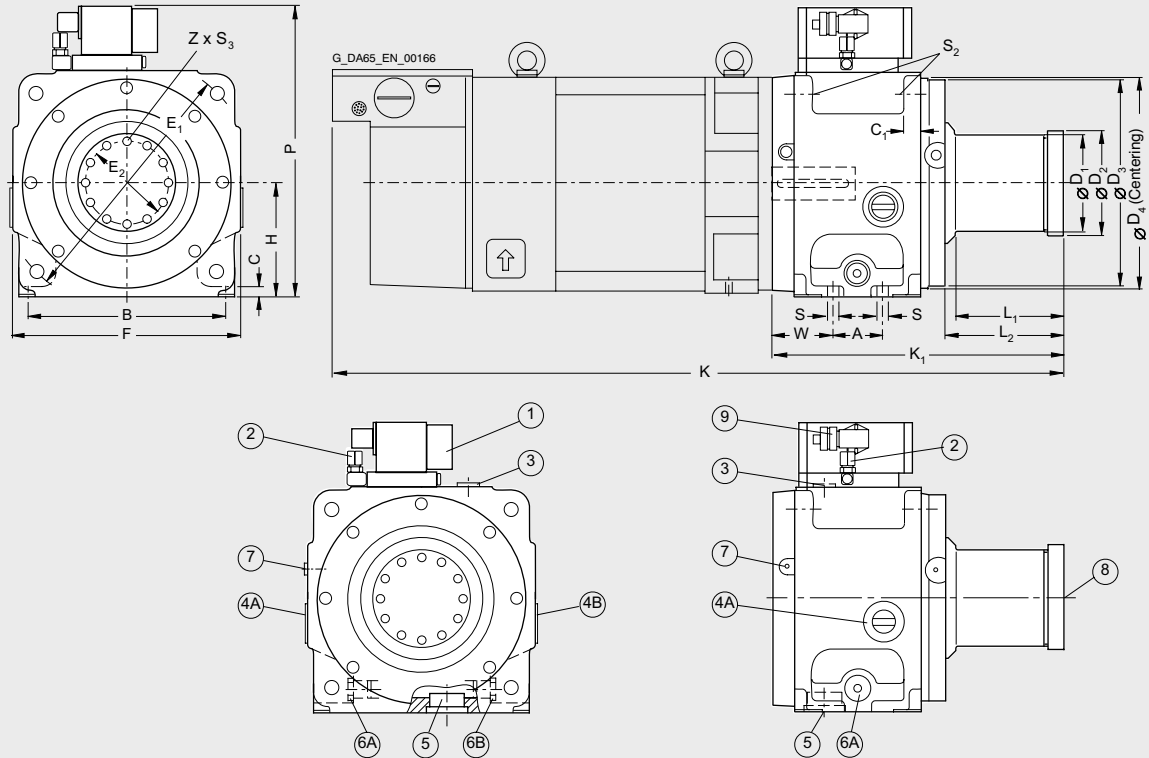
1PH4 motors with two-speed gearbox Forced ventilation

For motor		Gearbox Dimensions in mm (in)											
Shaft height	Type	A	B	C	C ₁	D ₁	D ₂	D ₃	D ₄	E ₁	E ₂	F	H
1PH4 with two-speed gearbox, type IM B35, forced ventilation													
100	1PH4103 1PH4105 1PH4107	55 (2.17)	184 (7.24)	12 (0.47)	18 (0.71)	100 (3.94)	100 (3.94)	188 (7.40)	190 (7.48)	215 (8.46)	80 (3.15)	208 (8.19)	108 (4.25)
132	1PH4133 1PH4135 1PH4137 1PH4138	58 (2.28)	234 (9.21)	12 (0.47)	20 (0.79)	116 (4.57)	118 (4.65)	249 (9.80)	250 (9.84)	300 (11.81)	100 (3.94)	270 (10.63)	136 (5.35)
160	1PH4163 1PH4167 1PH4168	58 (2.28)	290 (11.42)	17 (0.67)	20 (0.79)	140 (5.51)	130 (5.12)	249 (9.80)	250 (9.84)	350 (13.78)	110 (4.33)	326 (12.83)	164 (6.46)
Motor		Gearbox Dimensions in mm (in)										Total length motor-gearbox	
Shaft height	Type	K ₁	L ₁	L ₂	P	S	S ₂	S ₃	Z	W	K		
100	1PH4103 1PH4105 1PH4107	298 (11.73)	–	116 (4.57)	301 (11.85)	14 (0.55)	14 (0.55)	M8	8	63 (2.48)	714 (28.11) 774 (30.47) 839 (33.03)		
132	1PH4133 1PH4135 1PH4137 1PH4138	346.5 (13.64)	129.5 (5.10)	142.5 (5.61)	346 (13.62)	14 (0.55)	18 (0.71)	M12	12	71 (2.80)	805 (31.69) 875 (34.45) 925 (36.42) 960 (37.80)		
160	1PH4163 1PH4167 1PH4168	346.5 (13.64)	–	142.5 (5.61)	402 (15.83)	14 (0.55)	18 (0.71)	M12	12	71 (2.80)	938 (36.93) 993 (39.09) 1038 (40.87)		

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⑨ Connector, manufacture: Harting, type HAN 8 U.