

Asynchronous motors

Dimension drawings

1PH7 motors Forced ventilation

For motor Dimensions in mm (in)

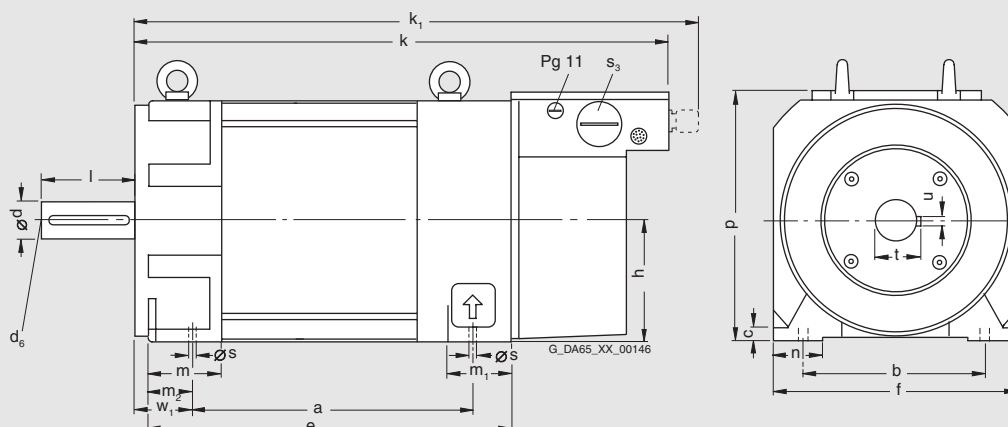
Shaft height	Type	DIN IEC	a B	b A	c LA	e M	f AB	h H	k LB	k ₁ –	m BA	m ₁ –	m ₂ –	n AA	p HD	s K	s ₃ –	w ₁ C
1PH7, type IM B3, forced ventilation																		
100	1PH7101		202.5 (7.97)	160 (6.30)	11 (0.43)	263 (10.35)	196 (7.72)	100 (3.94)	411 (16.18)	434 (17.09)	52 (2.05)	64 (2.52)	27 (1.06)	39 (1.54)	220 (8.66)	12 (0.47)	Pg 29	40 (1.57)
	1PH7103																	
	1PH7105		297.5 (11.71)			358 (14.09)			506 (19.92)	529 (20.83)								
	1PH7107																	
132	1PH7131		265.5 (10.45)	216 (8.50)	14 (0.55)	341 (13.43)	260 (10.24)	132 (5.20)	538 (21.18)	561 (22.09)	63 (2.48)	75 (2.95)	33 (1.30)	52 (2.05)	275 (10.83)	12 (0.47)	Pg 36	50 (1.97)
	1PH7133																	
	1PH7135		350.5 (13.80)			426 (16.77)			623 (24.53)	646 (25.43)								
	1PH7137																	
160	1PH7163		346.5 (13.64)	254 (10.00)	17 (0.67)	438 (17.24)	314 (12.36)	160 (6.30)	640 (25.20)	663 (26.10)	78 (3.07)	81 (3.19)	42 (1.65)	62 (2.44)	330 (12.99)	14 (0.55)	Pg 42	64 (2.52)
	1PH7167		406.5 (16.00)			498 (19.61)			700 (27.56)	723 (28.46)								

Drive end shaft extension

Shaft height	Type	DIN IEC	d D	d ₆ –	l E	t GA	u F
100	1PH7101		38 (1.50)	M 12	80 (3.15)	41 (1.61)	10 (0.39)
	1PH7103						
	1PH7105						
	1PH7107						
132	1PH7131		42 (1.65)	M 16	110 (4.33)	45 (1.77)	12 (0.47)
	1PH7133						
	1PH7135						
	1PH7137						
160	1PH7163		55 (2.17)	M 20	110 (4.33)	59 (2.32)	16 (0.63)
	1PH7167						

For deviating and additional dimensions for 1PH7 motors with DRIVE-CLiQ, see "1PH7 motors with DRIVE-CLiQ".

1PH710 .
1PH713 .
1PH716 .



Asynchronous motors

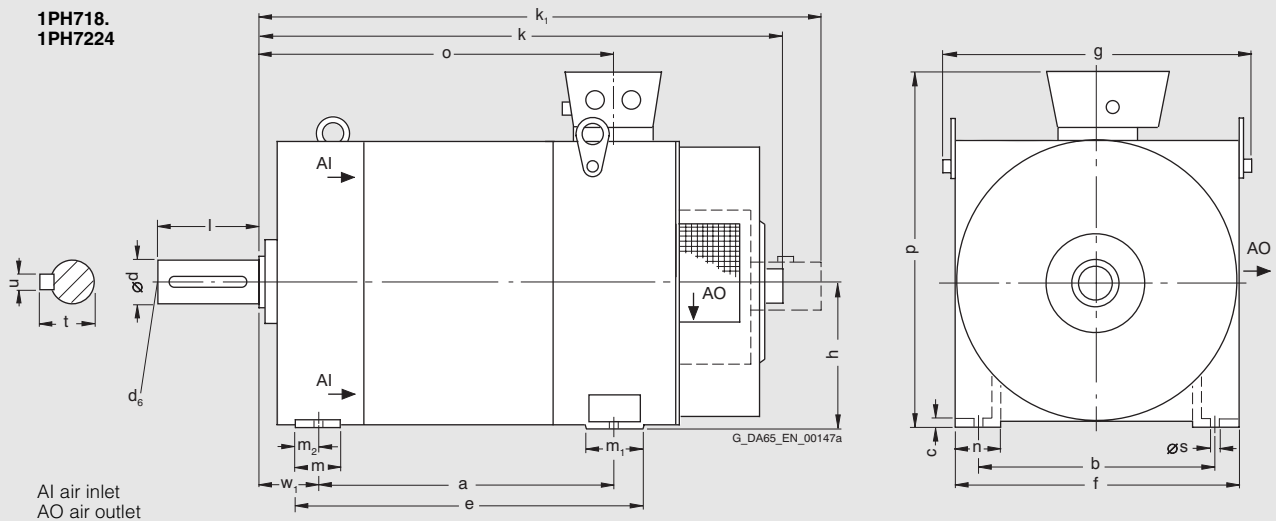
Dimension drawings

1PH7 motors Forced ventilation

For motor		Dimensions in mm (in)															Terminal box type 1XB7...		
Shaft height	Type	DIN IEC	a B	b A	c LA	e M	f AB	g AC	h H	k LB	k ₁ –	m BA	m ₁ –	m ₂ –	n AA	o –	...322 p ¹⁾ HD	...422 p ¹⁾ HD	...700 p ¹⁾ HD
1PH7, type IM B3, forced ventilation, direction of air flow DE-NDE																			
180	1PH7184		430 (16.93)	279 (10.98)	14 (0.55)	510 (20.08)	360 (14.17)	408 (16.09)	180 (7.09)	835 (32.87)	–	60 (2.36)	120 (4.72)	35 (1.38)	65 (2.56)	541 (21.30)	495 (19.49)	–	–
	1PH7186		520 (20.47)			600 (23.62)				925 (36.42)						631 (24.84)		545 (21.46)	–
225	1PH7224		445 (17.52)	356 (14.02)	18 (0.71)	530 (20.87)	450 (17.72)	498 (19.61)	225 (8.86)	–	1100 (43.31)	60 (2.36)	120 (4.72)	40 (1.57)	85 (3.35)	629 (24.76)	595 (23.43)	645 (25.39)	680 (26.77)

Drive end shaft extension

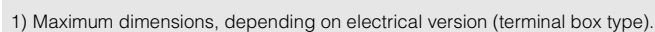
Shaft height	Type	DIN IEC	s K	w ₁ C	d D	d ₆ –	l E	t GA	u F
180	1PH7184		14.5 (0.57)	121 (4.76)	60 (2.36)	M 20	140 (5.51)	64 (2.52)	18 (0.72)
	1PH7186				65 (2.56)			69 (2.72)	
225	1PH7224		18.5 (0.73)	149 (5.87)	75 (2.95)	M 20	140 (5.51)	79.5 (3.13)	20 (0.79)



1) Maximum dimensions, depending on electrical version (terminal box type).

1PH7 motors
Forced ventilation

For motor					Drive end shaft extension				
Shaft height	Type	DIN IEC	s K	w ₁ C	d D	d ₆ –	l E	t GA	u F
180	1PH7184		14.5 (0.57)	121 (4.76)	60 (2.36)	M 20	140 (5.51)	64 (2.52)	18 (0.71)
	1PH7186				65 (2.56)			69 (2.72)	
225	1PH7224		18.5 (0.73)	149 (5.87)	75 (2.95)	M 20	140 (5.51)	79.5 (3.13)	20 (0.79)



Asynchronous motors

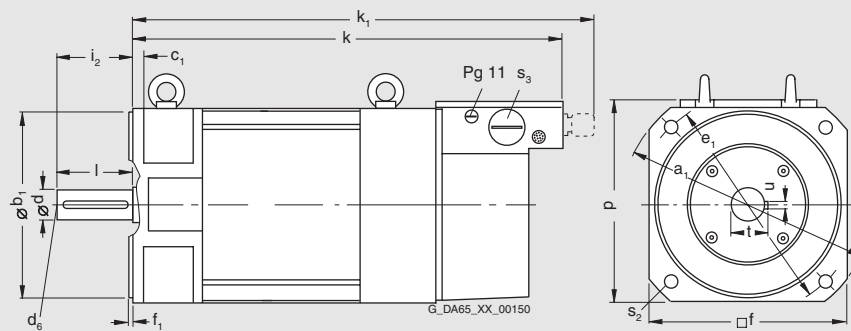
Dimension drawings

1PH7 motors Forced ventilation

For motor		Dimensions in mm (in)														Drive end shaft extension				
Shaft height	Type	DIN IEC	a ₁ P	b ₁ N	c ₁ LA	e ₁ M	f AB	f ₁ T	i ₂ –	k LB	k ₁ –	p HD	s ₂ S	s ₃ –	d D	d ₆ –	l E	t GA	u F	
1PH7, type IM B5, forced ventilation																				
100	1PH7101		250 (9.84)	180 (7.09)	10 (0.39)	215 (8.46)	196 (7.72)	4 (0.16)	80 (3.15)	411 (16.18)	434 (17.09)	218 (8.58)	14 (0.55)	Pg 29	38 (1.50)	M 12	80 (3.15)	41 (1.61)	10 (0.39)	
	1PH7103																			
	1PH7105									506 (19.92)	529 (20.83)									
	1PH7107																			
132	1PH7131		350 (13.78)	250 (9.84)	16 (0.63)	300 (11.81)	260 (10.24)	5 (0.20)	110 (4.33)	538 (21.18)	561 (22.09)	273 (10.75)	18 (0.71)	Pg 36	42 (1.65)	M 16	110 (4.33)	45 (1.77)	12 (0.47)	
	1PH7133																			
	1PH7135									623 (24.53)	646 (25.43)									
	1PH7137																			

For deviating and additional dimensions for 1PH7 motors with DRIVE-CLiQ, see "1PH7 motors with DRIVE-CLiQ".

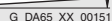
1PH710 .
1PH713 .



1PH7 motors
Forced ventilation

Drive end shaft extension											
Shaft height	Type	DIN IEC	s K	s ₂ S	s ₃ –	w ₁ C	d D	d ₆ –	l E	t GA	u F
100	1PH7101 1PH7103 1PH7105 1PH7107		12 (0.47)	14 (0.55)	Pg 29	40 (1.57)	38 (1.50)	M 12	80 (3.15)	41 (1.61)	10 (0.39)
132	1PH7131 1PH7133 1PH7135 1PH7137		12 (0.47)	18 (0.71)	Pg 36	50 (1.97)	42 (1.65)	M 16	110 (4.33)	45 (1.77)	12 (0.47)
160	1PH7163 1PH7167		14 (0.47)	18 (0.71)	Pg 42	64 (2.52)	55 (2.17)	M 20	110 (4.33)	59 (2.32)	16 (0.63)

1PH710 .
1PH713 .
1PH716 .

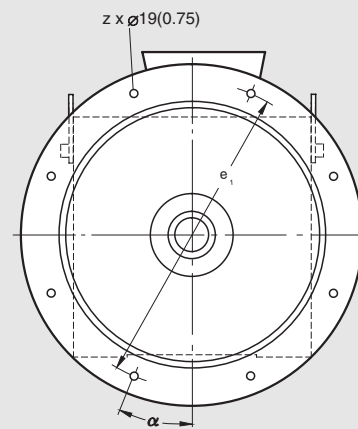
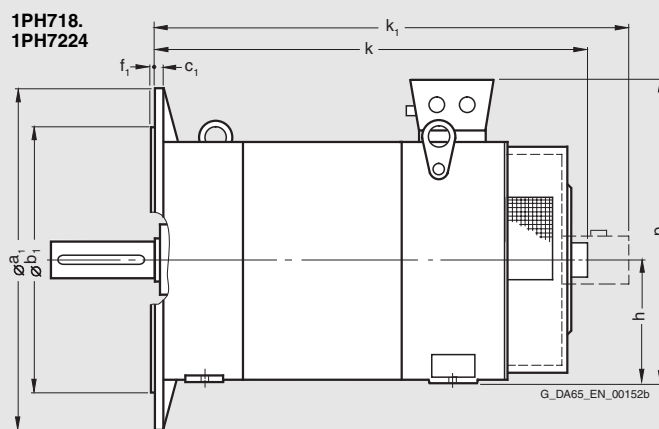


Asynchronous motors

Dimension drawings

1PH7 motors Forced ventilation

For motor		Dimensions in mm (in)										For dimensions for foot mounting, shaft and terminal box, see dimension drawing of 1PH718. and 1PH722 type IM B3. Terminal box type 1XB7...				
Shaft height	Type	DIN IEC	a ₁ P	b ₁ N	c ₁ LA	e ₁ M	f ₁ T	h H	k LB	k ₁ –	...322 p ¹⁾	...422 p ¹⁾	...700 p ¹⁾	z –	α –	
1PH7, type IM B35, forced ventilation, direction of air flow DE-NDE																
180	1PH7184 ²⁾		400 (15.75)	300 (11.81)	15 (0.59)	350 (13.78)	5 (0.20)	180 (7.09)	835 (32.87)	–	495 (19.49)	–	–	4	45°	
	1PH7184 ²⁾		450 (17.72)	350 (13.78)	16 (0.63)	400 (15.75)			835 (32.87)			–	–	8	22.5°	
	1PH7186								925 (36.42)			560 (22.05)	–			
225	1PH7224		550 (21.65)	450 (17.72)	18 (0.71)	500 (19.69)	5 (0.20)	225 (8.86)	–	1100 (43.31)	595 (23.43)	645 (25.39)	680 (26.77)	8	22.5°	



1) Maximum dimensions, depending on electrical version (terminal box type).
2) See Order No. suffix for shaft heights 180 and 225.

Asynchronous motors

Dimension drawings

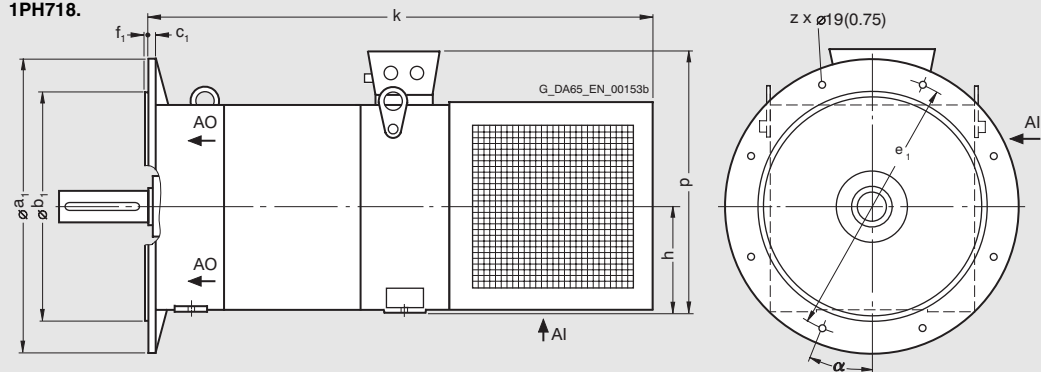
1PH7 motors Forced ventilation

For motor Dimensions in mm (in)

For dimensions for foot mounting, shaft and terminal box, see the dimension drawing of 1PH718. and 1PH722. motors, type IM B3.

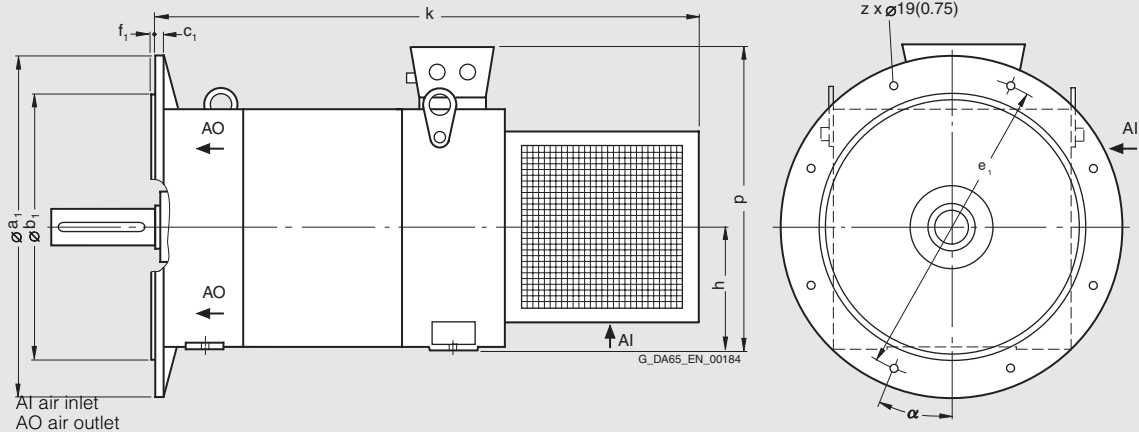
Shaft height	Type	DIN IEC	a ₁ P	b ₁ N	c ₁ LA	e ₁ M	f ₁ T	h H	k LB	Terminal box type 1XB7...					
										...322 p ¹⁾	...422 p ¹⁾	...700 p ¹⁾	z –	α –	
1PH7, type IM B35, forced ventilation, direction of air flow NDE-DE															
180	1PH7184 ²⁾		400 (15.75)	300 (11.81)	15 (0.59)	350 (13.78)	5 (0.20)	180 (7.09)	1010 (39.76)	495 (19.49)	–	–	4	45°	
	1PH7184 ²⁾		450 (17.72)	350 (13.78)	16 (0.63)	400 (15.75)			1010 (39.76)		–	–	8	22.5°	
	1PH7186								1100 (43.31)		560 (22.05)	–			
225	1PH7224		550 (21.65)	450 (17.72)	18 (0.71)	500 (19.69)	5 (0.20)	225 (8.86)	1090 (42.91)	595 (23.43)	645 (25.39)	680 (26.77)	8	22.5°	

1PH718.



AI air inlet
AO air outlet

1PH7224



AI air inlet
AO air outlet

1) Maximum dimensions, depending on electrical version (terminal box type).

2) See Order No. suffix for shaft heights 180 and 225.

Asynchronous motors

Dimension drawings

1PH7 motors with DRIVE-CLiQ
Forced ventilation

For motor		Dimensions in mm (in)					
Shaft height	Type	DIN IEC	k LB	k ₁ –	p ₁ –	x –	y –
Deviating and additional dimensions for 1PH7 motors with DRIVE-CLiQ to those given in dimension tables 1PH7, forced ventilation							
100	1PH7101		411	453	81	52.5	63.5
			(16.18)	(17.83)	(3.19)	(2.07)	(2.50)
	1PH7103						
	1PH7105		506	548			
			(19.92)	(21.57)			
132	1PH7107						
	1PH7131		538	580	103.5	66	63.5
			(21.18)	(22.83)	(4.07)	(2.60)	(2.50)
	1PH7133						
	1PH7135		623	665			
			(24.53)	(26.18)			
160	1PH7137						
	1PH7163		640	682	127	75	63.5
			(25.20)	(26.85)	(5.00)	(2.95)	(2.50)
	1PH7167		700	742			
			(27.56)	(29.21)			

1PH710 .
1PH713 .
1PH716 .

