

AC motors

Dimension drawings - asynchronous motors

1PH7 motors

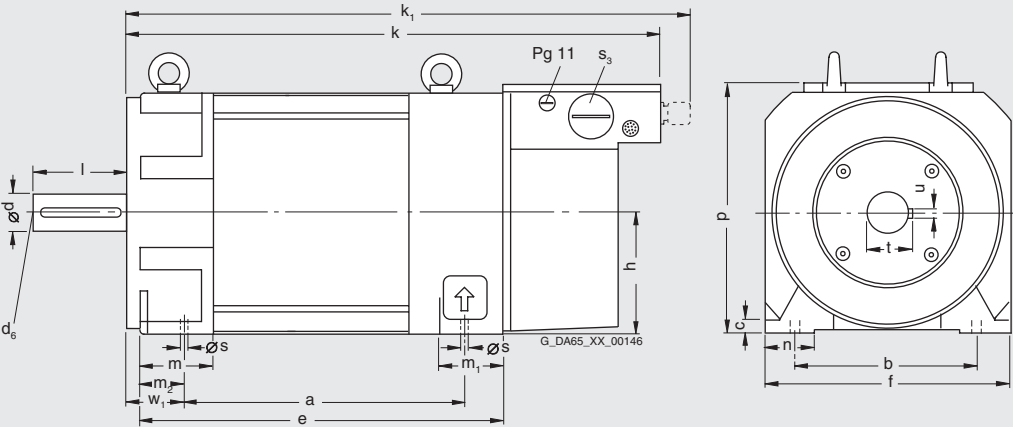
Forced ventilation

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)								

		DE shaft extension						
Shaft height	Type	DIN IEC	d D	d ₆ –	l E	t GA	u F	
100	1PH7101		38 (1.50)	M12	80 (3.15)	41 (1.61)	10 (0.39)	
	1PH7103							
	1PH7105							
	1PH7107							
132	1PH7131		42 (1.65)	M16	110 (4.33)	45 (1.77)	12 (0.47)	
	1PH7133							
	1PH7135							
	1PH7137							
160	1PH7163		55 (2.17)	M20	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 .



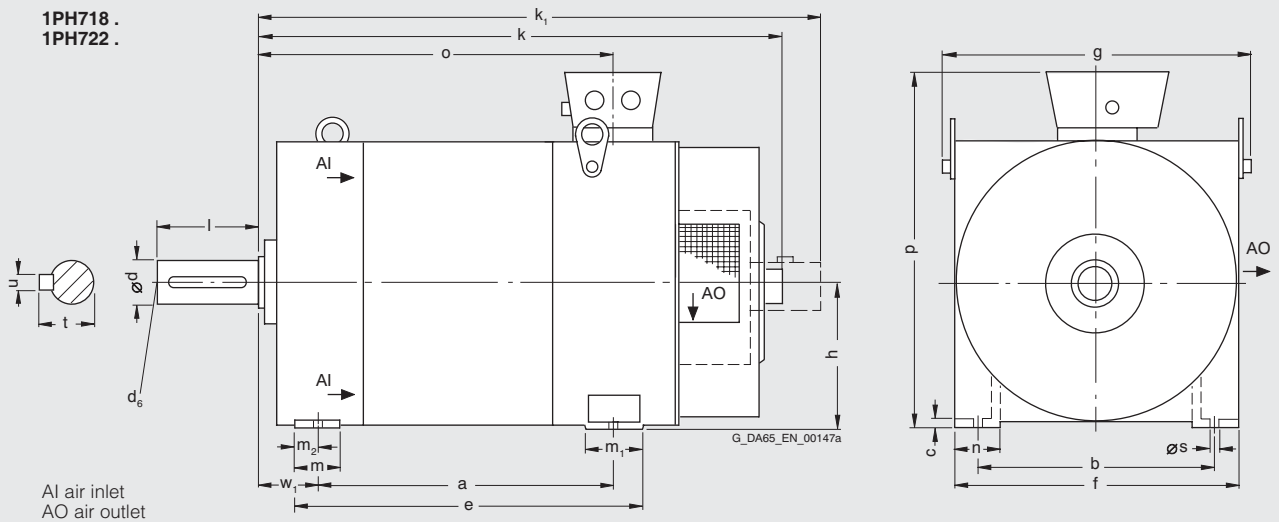
AC motors

Dimension drawings - asynchronous motors

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	g AC	h H	k LB	k ₁ –	m BA	m ₁ –	m ₂ –	n AA	o –
1PH7, type IM B3, forced ventilation, air-flow direction DE to NDE																
180	1PH7184 1PH7186		430 (16.93) 520 (20.47)	279 (10.98)	14 (0.55)	510 (20.08) 600 (23.62)	360 (14.17)	408 (16.09)	180 (7.09)	835 (32.87) 925 (36.42)	–	60 (2.36)	120 (4.72)	35 (1.38)	65 (2.56)	541 (21.30) 631 (24.84)
225	1PH7224 1PH7226 1PH7228		445 (17.52) 545 (21.46) 635 (25.00)	356 (14.02)	18 (0.71)	530 (20.87) 630 (24.80) 720 (28.35)	450 (17.72)	498 (19.61)	225 (8.86)	– 1100 (43.31) 1200 (47.24) 1290 (50.79)		60 (2.36)	120 (4.72)	40 (1.57)	85 (3.35)	629 (24.76) 729 (28.70) 819 (32.24)

			Terminal box type 1XB7...			DE shaft extension						
Shaft height	Type	DIN IEC	...322	...422	...700	s K	w ₁ C	d D	d ₆ –	l E	t GA	u F
			p ¹⁾ HD	p ¹⁾ HD	p ¹⁾ HD							
180	1PH7184		495 (19.49)	–	–	14.5 (0.57)	121 (4.76)	60 (2.36)	M20	140 (5.51)	64 (2.52)	18 (0.72)
	1PH7186			545 (21.46)	–		65 (2.56)	69 (2.72)				
225	1PH7224		595 (23.43)	645 (25.39)	680 (26.77)	18.5 (0.73)	149 (5.87)	75 (2.95)	M20	140 (5.51)	79.5 (3.13)	20 (0.79)
	1PH7226											
	1PH7228			–								



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

AC motors

Dimension drawings - asynchronous motors

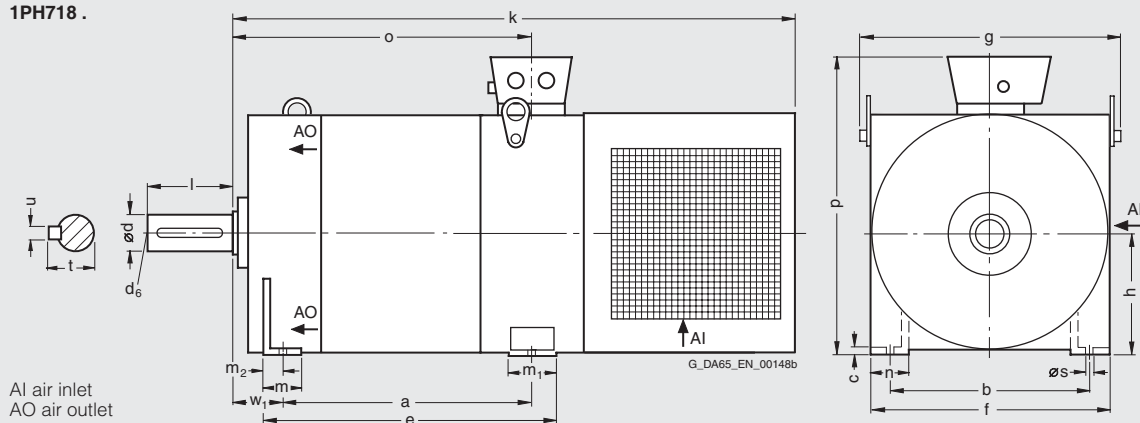
1PH7 motors

Forced ventilation

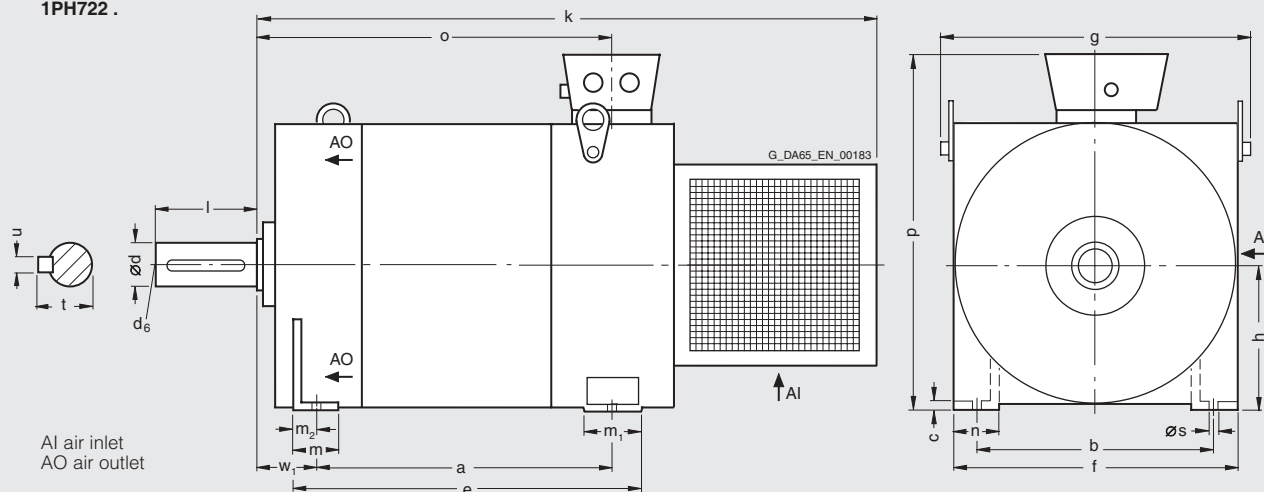
For motor		Dimensions in mm (in)														Terminal box type 1XB7...		
Shaft height	Type	DIN IEC	a B	b A	c LA	e M	f AB	g AC	h H	k LB	m BA	m ₁ -	m ₂ -	n AA	o -	p ¹⁾ HD ...322	p ¹⁾ HD ...422	p ¹⁾ HD ...700
1PH7, type IM B3, forced ventilation, air-flow direction NDE to DE																		
180	1PH7184		430 (16.93)	279 (10.98)	14 (0.55)	510 (20.08)	360 (14.17)	405 (15.94)	180 (7.09)	1010 (39.76)	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)				1100 (43.31)					631 (24.84)	560 (22.05)	-	
225	1PH7224		445 (17.52)	356 (14.02)	18 (0.71)	530 (20.87)	450 (17.72)	498 (19.61)	225 (8.86)	1090 (42.91)	60 (2.36)	120 (4.72)	40 (1.57)	85 (3.35)	629 (24.76)	595 (23.43)	645 (25.39)	680 (26.77)
	1PH7226		545 (21.46)			630 (24.80)				1190 (46.85)					729 (28.70)			
	1PH7228		635 (25.00)			720 (28.35)				1280 (50.39)					819 (32.24)		-	

For motor		DE 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)	M20	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)	M20	140 (5.51)	79.5 (3.13)	20 (0.79)
	1PH7226 1PH7228								

1PH718 .



1PH722 .



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

AC motors

Dimension drawings - asynchronous motors

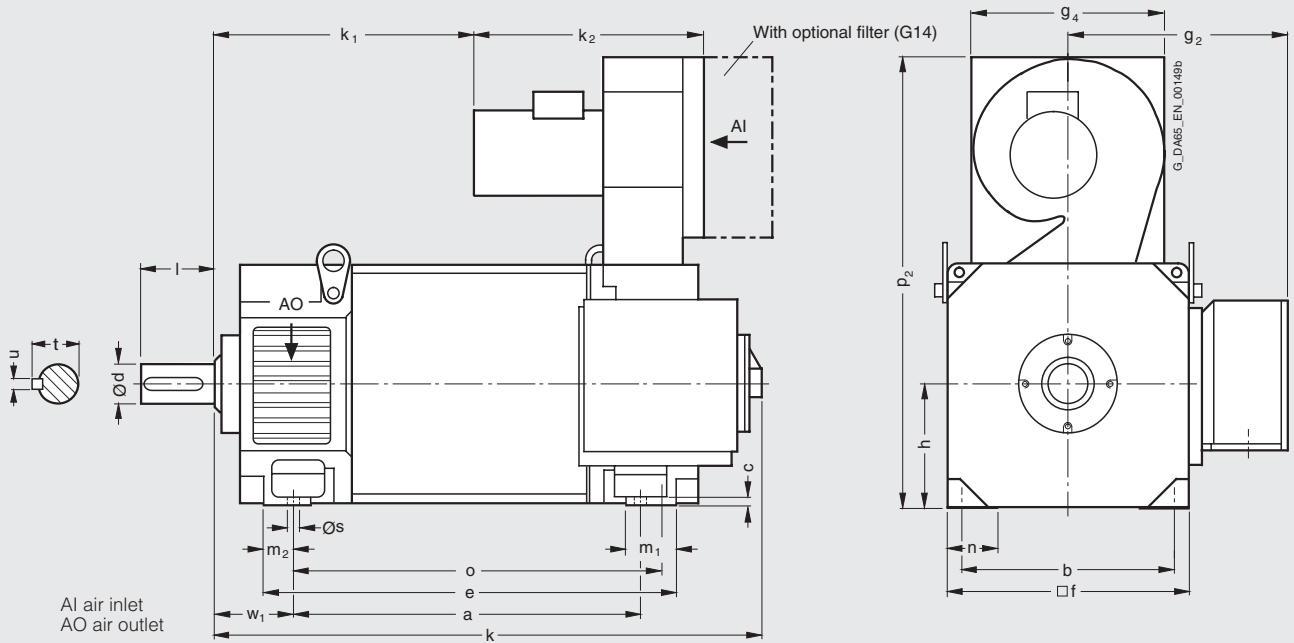
1PH7 motors
Forced ventilation

For motor		Dimensions in mm (in)															
Shaft height	Type	DIN IEC	a B	b A	c HA	e BB	f AB	g ₂ AD	g ₄ -	h H	k LB	k ₁ -	k ₂ -	m ₁ -	m ₂ -	n AA	o -
Type IM B3, with external fan unit, air-flow direction NDE to DE																	
280	1PH7284		684 (26.93)	457 (17.99)	22 (0.87)	840 (33.07)	560 (22.05)	518 (20.39)	449 (17.68)	280 (11.02)	1146 (45.12)	489 (19.25)	546 (21.50)	108 (4.25)	78 (3.07)	100 (3.94)	731 (28.78)
	1PH7286		794 (31.26)			950 (37.40)					1256 (49.45)	599 (23.58)					841 (33.11)
	1PH7288		924 (36.38)			1080 (42.52)					1386 (54.57)	729 (28.70)					971 (38.23)

DE shaft extension

Shaft height	Type	DIN IEC	p ₂ -	s K	w ₁ C	d D	l E	t GA	u FA
280	1PH7284		1042 (41.02)	24 (0.94)	190 (7.48)	95 (3.74)	170 (6.69)	100 (3.94)	25 (0.98)
	1PH7286								
	1PH7288								

1PH728 .



AC motors

Dimension drawings - asynchronous motors

1PH7 motors

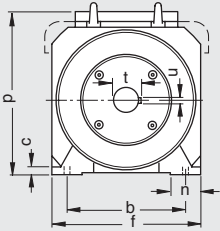
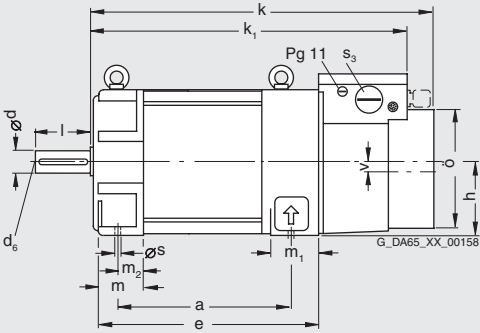
Forced ventilation

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	o –	p HD
Type IM B3, with external fan unit, with pipe connection at NDE																
100	1PH7101		202.5 (7.97)	160 (6.30)	11 (0.43)	263 (10.35)	196 (7.72)	100 (3.94)	441 (17.36)	411 (16.18)	52 (2.05)	64 (2.52)	25 (0.98)	39 (1.54)	161 (6.34)	220 (8.66)
	1PH7103															
	1PH7105		297.5 (11.71)			358 (14.09)			536 (21.10)	506 (19.92)						
	1PH7107															
132	1PH7131		265.5 (10.45)	216 (8.50)	14 (0.55)	341 (13.43)	260 (10.24)	132 (5.20)	573 (22.56)	538 (21.18)	63 (2.48)	75 (2.95)	30 (1.18)	52 (2.05)	211.5 (8.33)	275 (10.83)
	1PH7133															
	1PH7135		350.5 (13.80)			426 (16.77)			658 (25.91)	623 (24.53)						
	1PH7137															
160	1PH7163		346.5 (13.64)	254 (10.00)	17 (0.67)	438 (17.24)	314 (12.36)	160 (6.30)	674 (26.54)	640 (25.20)	78 (3.07)	81 (3.19)	36 (1.42)	62 (2.44)	253 (9.96)	330 (12.99)
	1PH7167		406.5 (16.00)			498 (19.61)			734 (28.90)	700 (27.56)						

DE shaft extension																
Shaft height	Type	DIN IEC	s K	s ₃ –	v –	w ₁ C	d D	d ₆ –	l E	t GA	u F					
100	1PH710 .		12 (0.47)	Pg 29	10.5 (0.41)	40 (1.57)	38 (1.50)	M12	80 (3.15)	41.3 (1.63)	10 (0.39)					
132	1PH713 .		12 (0.47)	Pg 36	17 (0.67)	50 (1.97)	42 (1.65)	M16	110 (4.33)	45.3 (1.78)	12 (0.47)					
160	1PH716 .		14 (0.55)	Pg 42	17 (0.67)	64 (2.52)	55 (2.17)	M20	110 (4.33)	56.3 (2.22)	16 (0.63)					

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

1PH710 .
1PH713 .
1PH716 .



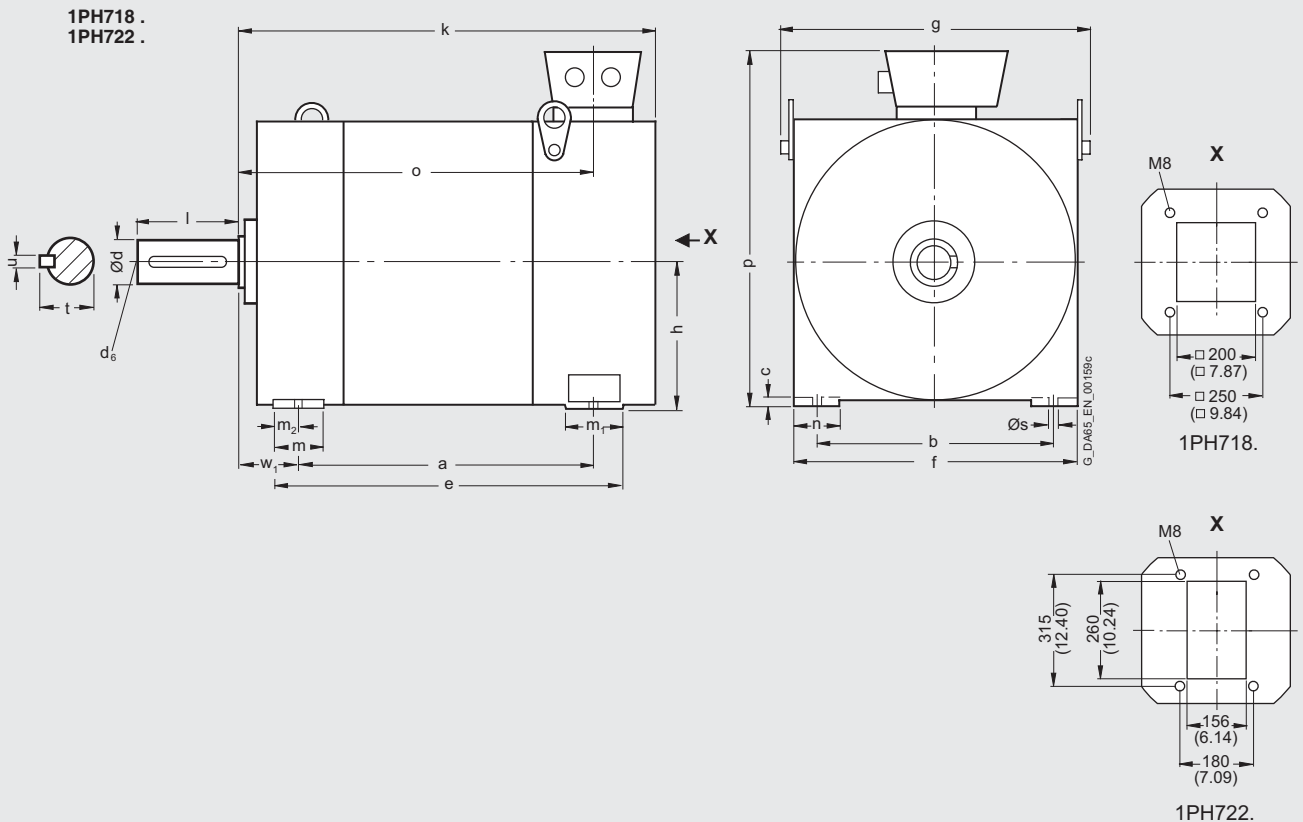
AC motors

Dimension drawings - asynchronous motors

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	g AC	h H	k LB	m BA	m ₁ –	m ₂ –	n AA	o –
Type IM B3, with external fan unit, with pipe connection at NDE															
180	1PH7184		430 (16.93)	279 (10.98)	14 (0.55)	510 (20.08)	360 (14.17)	408 (16.06)	180 (7.09)	830 (32.68)	60 (2.36)	120 (4.72)	35 (1.38)	65 (2.56)	541 (21.30)
	1PH7186		520 (20.47)			600 (23.62)				920 (36.22)					631 (24.84)
225	1PH7224		445 (17.52)	356 (14.02)	18 (0.71)	530 (20.78)	450 (17.72)	498 (19.61)	225 (8.86)	950 (37.40)	60 (2.36)	120 (4.72)	40 (1.57)	80 (3.15)	629 (24.76)
	1PH7226		545 (21.46)			630 (24.80)				1050 (41.34)					729 (28.70)
	1PH7228		635 (25.00)			720 (28.35)				1140 (44.88)					819 (32.24)

			Terminal box type 1XB7...					DE shaft extension				
Shaft height	Type	DIN IEC	...322	...422	...700	s K	w ₁ C	d D	d ₆ –	l E	t GA	u F
			p ¹⁾ HD	p ¹⁾ HD	p ¹⁾ HD							
180	1PH7184		495 (19.49)	–	–	14.5 (0.57)	121 (4.76)	60 (2.36)	M20	140 (5.51)	64 (2.52)	18 (0.71)
	1PH7186			560 (22.05)	–			65 (2.56)			69 (2.72)	
225	1PH7224		595 (23.43)	645 (25.39)	680 (26.77)	18.5 (0.73)	149 (5.87)	75 (2.95)	M20	140 (5.51)	79.5 (3.13)	20 (0.79)
	1PH7226											
	1PH7228			–								



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

AC motors

Dimension drawings - asynchronous motors

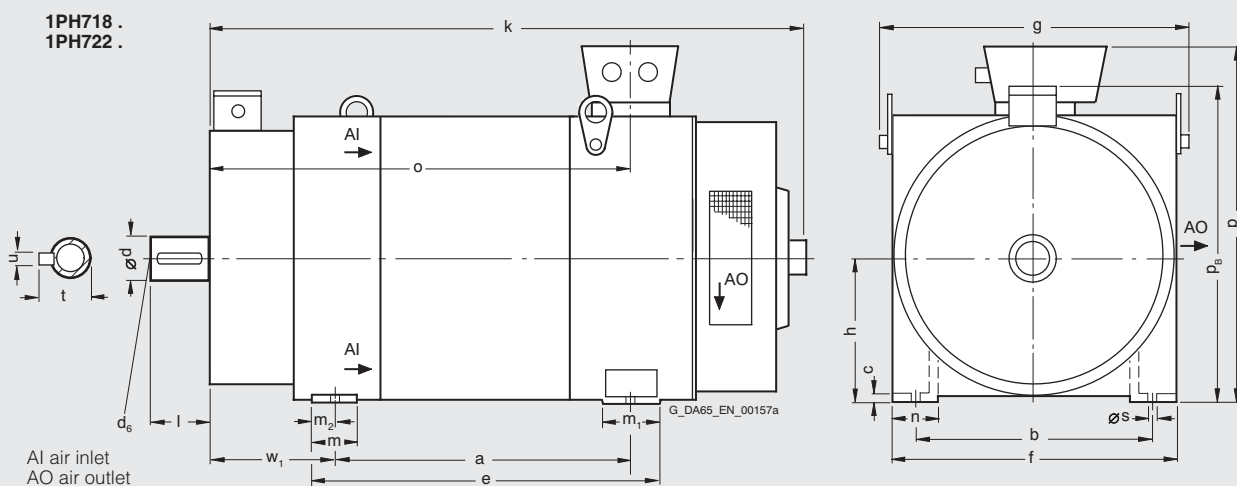
1PH7 motors

Forced ventilation

For motor		Dimensions in mm (in)															Terminal box type 1XB7...		
Shaft height	Type	DIN IEC	a	b	c	e	f	g	h	k	m	m ₁	m ₂	n	o	...322	...422	...700	
			B	A	LA	M	AB	AC	H	LB	BA	–	–	AA	–	p ¹⁾ HD	p ¹⁾ HD	p ¹⁾ HD	
Type IM B3, with external fan unit, with brake module, air-flow direction DE to NDE																			
180	1PH7184		430 (16.93)	279 (10.98)	14 (0.55)	510 (20.08)	360 (14.17)	408 (16.06)	180 (7.09)	945 (37.20)	60 (2.36)	120 (4.72)	35 (1.38)	65 (2.56)	644 (25.35)	495 (19.49)	–	–	
	1PH7186		520 (20.47)			600 (23.62)				1035 (40.75)					734 (28.90)		560 (22.05)	–	
225	1PH7224		445 (17.52)	356 (14.02)	18 (0.71)	530 (20.87)	450 (17.72)	498 (19.61)	225 (8.86)	1230 (48.43)	60 (2.36)	120 (4.72)	40 (1.57)	80 (3.15)	758 (29.84)	595 (23.43)	645 (25.39)	680 (26.77)	
	1PH7226		545 (21.46)			630 (24.80)				1330 (52.36)					858 (33.78)				
	1PH7228		635 (25.00)			720 (28.35)				1420 (55.91)					948 (37.32)		–		

DE shaft extension

Shaft height	Type	DIN IEC	p _B –	s K	w ₁ C	d D	d ₆ –	l E	t GA	u F
180	1PH7184		390 (15.35)	14.5 (0.57)	224 (8.82)	90 (3.54)	M20	90 (3.54)	95 (3.74)	25 (0.98)
	1PH7186									
225	1PH7224		450 (17.72)	18.5 (0.73)	278 (10.94)	100 (3.94)	M20	100 (3.94)	106 (4.17)	28 (1.10)
	1PH7226									
	1PH7228									



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

AC motors

Dimension drawings - asynchronous motors

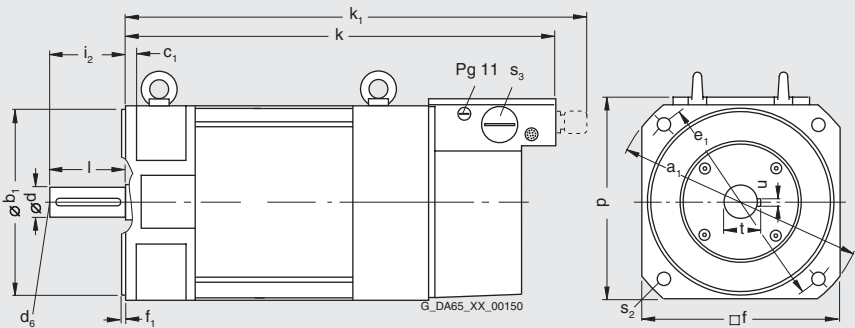
1PH7 motors

Forced ventilation

For motor		Dimensions in mm (in)														DE 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)	M12	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)	M16	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 .



AC motors

Dimension drawings - asynchronous motors

1PH7 motors

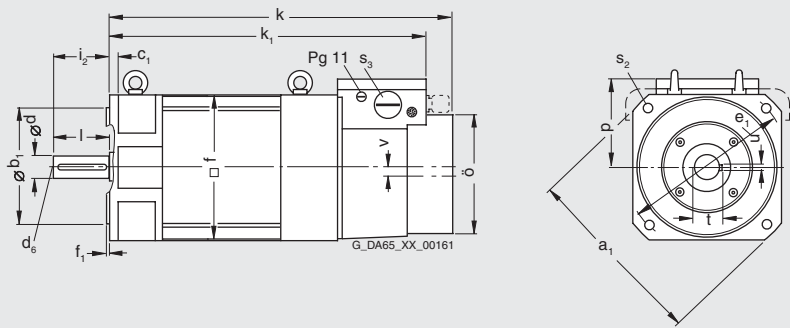
Forced ventilation

For motor		Dimensions in mm (in)														
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 –	o –	p HD	s ₂ S	s ₃ –	v –
Type IM B5, with external fan unit, with pipe connection at NDE																
100	1PH7101		250 (9.84)	180 (7.09)	10 (0.39)	215 (8.46)	196 (7.72)	4 (0.16)	80 (3.15)	441 (17.36)	411 (16.18)	161 (6.34)	120 (4.72)	14 (0.55)	Pg 29	10.5 (0.41)
	1PH7103															
	1PH7105									536 (21.10)	506 (19.92)					
	1PH7107															
132	1PH7131		350 (13.78)	250 (9.84)	16 (0.63)	300 (11.81)	260 (10.24)	5 (0.20)	110 (4.33)	573 (22.56)	538 (21.18)	211.5 (8.33)	143 (5.63)	18 (0.71)	Pg 36	17 (0.67)
	1PH7133															
	1PH7135									658 (25.91)	623 (24.53)					
	1PH7137															

DE shaft extension							
Shaft height	Type	DIN IEC	d D	d ₆ –	l E	t GA	u F
100	1PH7101		38 (1.50)	M12	80 (3.15)	41 (1.61)	10 (0.39)
	1PH7103						
	1PH7105						
	1PH7107						
132	1PH7131		42 (1.65)	M16	110 (4.33)	45 (1.77)	12 (0.47)
	1PH7133						
	1PH7135						
	1PH7137						

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

1PH710 .
1PH713 .



AC motors

Dimension drawings - asynchronous motors

1PH7 motors
Forced ventilation

For motor		Dimensions in mm (in)															
Shaft height	Type	DIN IEC	a ₁ P	b ₁ N	c ₁ LA	e ₁ M	f AB	f ₁ T	f ₂ –	g ₂ AB	g ₃ T	i ₂ –	k LB	k ₁ –	p HD	s ₂ S	s ₃ S

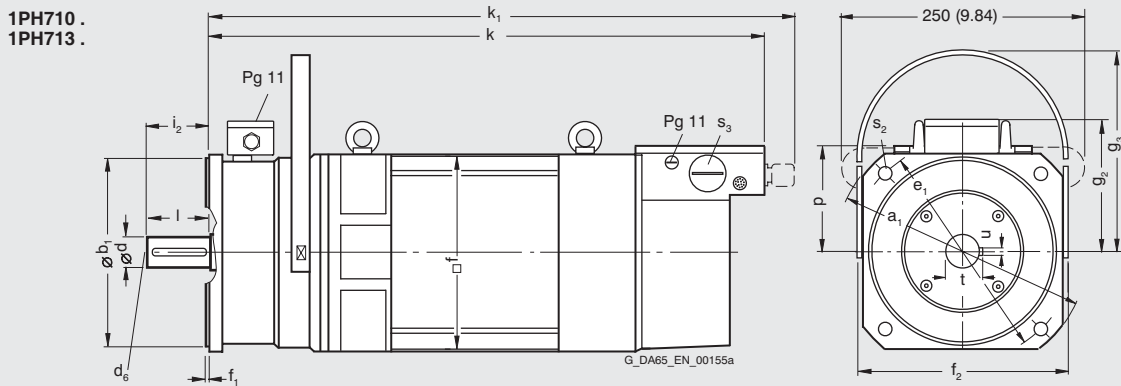
Type IM B 5, with external fan unit, with brake module

100	1PH7101		250 (9.84)	180 (7.09)	13 (0.51)	215 (8.46)	196 (7.72)	4 (0.16)	220 (8.66)	149 (5.87)	224 (8.82)	80 (3.15)	541 (21.30)	564 (22.20)	120 (4.72)	14 (0.55)	Pg 29
	1PH7103												636 (25.04)	659 (25.94)			
	1PH7105																
	1PH7107																
132	1PH7131		–	250 (9.84)	18 (0.71)	300 (11.81)	260 (10.24)	5 (0.20)	278 (10.94)	174 (6.85)	269 (10.59)	110 (4.33)	700 (27.56)	723 (28.46)	143 (5.63)	18 (0.71)	Pg 36
	1PH7133												785 (30.91)	808 (31.81)			
	1PH7135																
	1PH7137																

DE shaft extension

Shaft height	Type	DIN IEC	d D	d ₆ –	l E	t GA	u F
100	1PH7101		38 (1.50)	M12	80 (3.15)	1.61 (41)	0.39 (10)
	1PH7103						
	1PH7105						
	1PH7107						
132	1PH7131		42 (1.65)	M16	110 (4.33)	45 (1.77)	12 (0.47)
	1PH7133						
	1PH7135						
	1PH7137						

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



AC motors

Dimension drawings - asynchronous motors

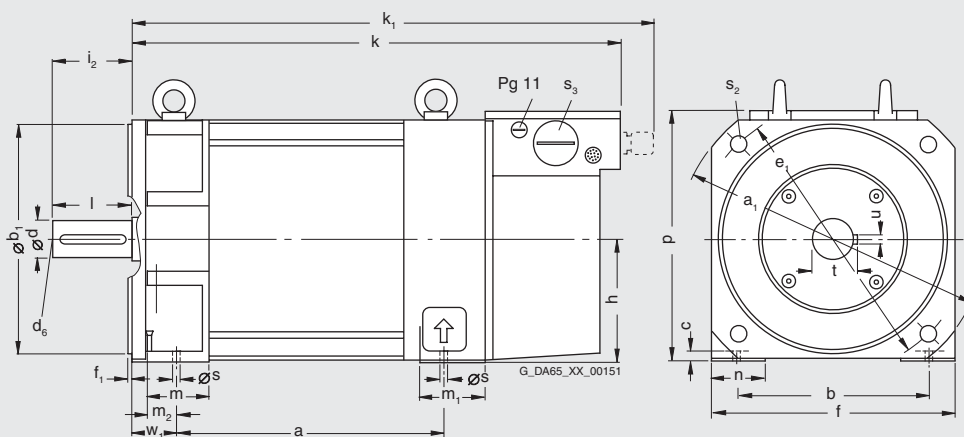
1PH7 motors Forced ventilation

For motor		Dimensions in mm (in)																	
Shaft height	Type	DIN IEC	a B	a ₁ P	b A	b ₁ N	c LA	e ₁ M	f AB	f ₁ T	h H	i ₂ –	k LB	k ₁ –	m BA	m ₁ –	m ₂ –	n AA	p HD
1PH7, type IM B35, forced ventilation																			
100	1PH7101		202.5 (7.97)	250 (9.84)	160 (6.30)	180 (7.09)	11 (0.43)	215 (8.46)	196 (7.72)	4 (0.16)	100 (3.94)	80 (3.15)	411 (16.18)	435 (17.13)	52 (2.05)	64 (2.52)	27 (1.06)	39 (1.54)	220 (8.66)
	1PH7103																		
	1PH7105		297.5 (11.71)										506 (19.92)	529 (20.83)					
	1PH7107																		
132	1PH7131		265.5 (10.45)	350 (13.78)	216 (8.50)	250 (9.84)	14 (0.55)	300 (11.81)	260 (10.24)	5 (0.20)	132 (5.20)	110 (4.33)	538 (21.18)	561 (22.09)	63 (2.48)	75 (2.95)	33 (1.30)	52 (2.05)	275 (10.83)
	1PH7133																		
	1PH7135		350.5 (13.80)										623 (24.53)	646 (25.43)					
	1PH7137																		
160	1PH7163		346.5 (13.64)	400 (15.75)	254 (10.00)	300 (11.81)	17 (0.67)	350 (13.78)	314 (12.36)	5 (0.20)	160 (6.30)	110 (4.33)	640 (25.20)	663 (26.10)	78 (3.07)	81 (3.19)	42 (1.65)	62 (2.44)	330 (12.99)
	1PH7167		406.5 (16.00)										700 (27.56)	723 (28.46)					

DE shaft extension													
Shaft height	Type	DIN IEC	n AA	p HD	s K	s ₂ S	s ₃ –	w ₁ C	d D	d ₆ –	l E	t GA	u F
100	1PH7101		39 (1.54)	220 (8.66)	12 (0.47)	14 (0.55)	Pg 29	40 (1.57)	38 (1.50)	M12	80 (3.15)	41 (1.61)	10 (0.39)
	1PH7103												
	1PH7105												
	1PH7107												
132	1PH7131		52 (2.05)	275 (10.83)	12 (0.47)	18 (0.71)	Pg 36	50 (1.97)	42 (1.65)	M16	110 (4.33)	45 (1.77)	12 (0.47)
	1PH7133												
	1PH7135												
	1PH7137												
160	1PH7163		62 (2.44)	330 (12.99)	14 (0.47)	18 (0.71)	Pg 42	64 (2.52)	55 (2.17)	M20	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 .

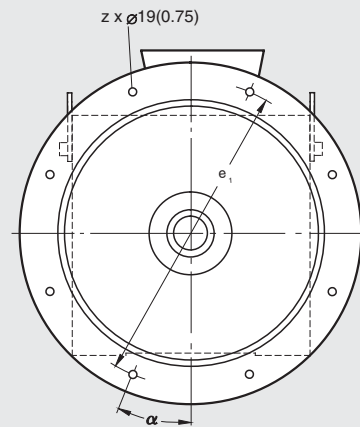
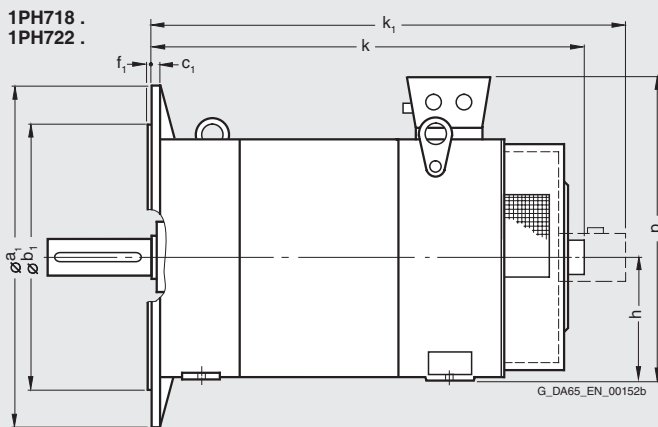


AC motors

Dimension drawings - asynchronous motors

1PH7 motors
Forced ventilation

For motor		Dimensions in mm (in)									For dimensions of the shaft and terminal box foot installation, see dimension drawing of 1PH718. and 1PH722. motors 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, air-flow direction DE to 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°
	1PH7226									1200 (47.24)					
	1PH7228									1290 (50.79)		–			



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

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

AC motors

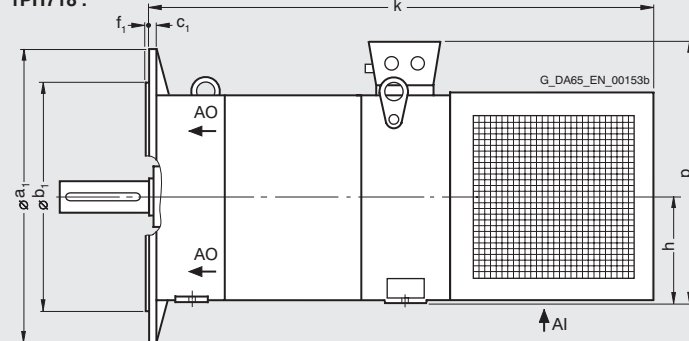
Dimension drawings - asynchronous motors

1PH7 motors

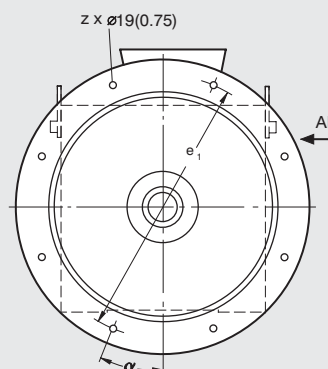
Forced ventilation

For motor		Dimensions in mm (in)									For dimensions of the shaft and terminal box foot installation, see 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	...	...	...	z	α
										...322 p ¹⁾	...422 p ¹⁾	...700 p ¹⁾	–	–
1PH7, type IM B35, forced ventilation, air-flow direction NDE to DE														
180	1PH7184²⁾		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°
	1PH7184²⁾		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°
	1PH7226								1190 (46.85)					
	1PH7228								1280 (50.39)		–			

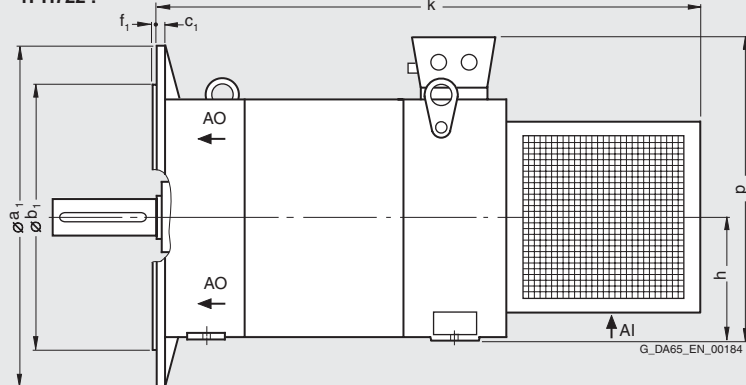
1PH718.



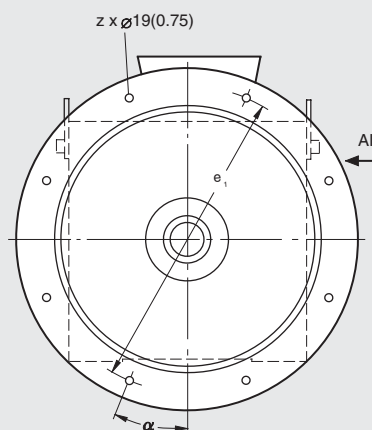
AI air inlet
AO air outlet



1PH722.



AI air inlet
AO air outlet



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

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

AC motors

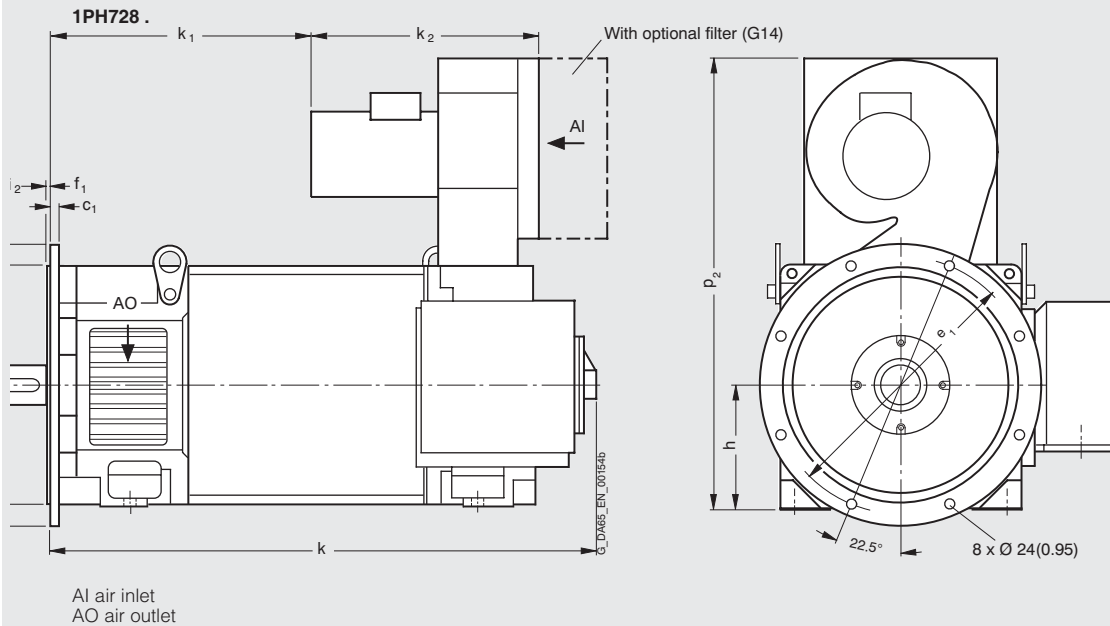
Dimension drawings - asynchronous motors

1PH7 motors
Forced ventilation

For motor		Dimensions in mm (in)									For dimensions of the shaft and terminal box foot installation, see dimension drawing of 1PH728. motors type IM B 3.		
Shaft height	Type	DIN IEC	a ₁ P	b ₁ N	c ₁ LA	e ₁ M	f ₁ T	h H	i ₂ —	k LB	k ₁ —	k ₂ —	p ₂ —

Type IM B 35, with external fan unit, air-flow direction NDE to DE

280	1PH7284		660 (25.98)	550 (21.65)	24 (0.94)	600 (23.62)	6 (0.24)	280 (11.02)	170 (6.69)	1146 (45.12)	489 (19.25)	546 (21.50)	1042 (41.02)
	1PH7286									1256 (49.45)	599 (23.58)		
	1PH7288									1386 (54.57)	729 (28.70)		



Dimension drawings - asynchronous motors

1PH7 motors

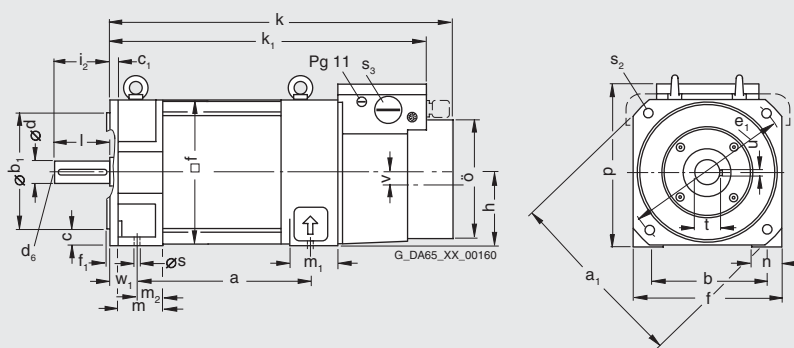
Forced ventilation

For motor		Dimensions in mm (in)															
Shaft height	Type	DIN IEC	a B	a ₁ P	b A	b ₁ N	c LA	c ₁ –	e ₁ –	f AB	f ₁ T	h H	k LB	k ₁ –	m BA	m ₁ –	m ₂ –
Type IM B35, with external fan unit, with pipe connection at NDE																	
100	1PH7101		202.5 (7.97)	250 (9.84)	160 (6.30)	180 (7.09)	11 (0.43)	13 (0.51)	215 (8.46)	196 (7.72)	4 (0.16)	100 (3.94)	441 (17.36)	411 (16.18)	52 (2.05)	64 (2.52)	25 (0.98)
	1PH7103																
	1PH7105		297.5 (11.71)											536 (21.10)	506 (19.92)		
132	1PH7131		265.5 (10.45)	350 (13.78)	216 (8.50)	250 (9.84)	14 (0.55)	17 (0.67)	300 (11.81)	260 (10.24)	5 (0.20)	132 (5.20)	573 (22.56)	538 (21.18)	63 (2.48)	75 (2.95)	30 (1.18)
	1PH7133																
	1PH7135		350.5 (13.80)											658 (25.91)	623 (24.53)		
160	1PH7163		346.5 (13.64)	400 (15.75)	254 (10.00)	300 (11.81)	17 (0.67)	22 (0.87)	350 (13.78)	314 (12.36)	5 (0.20)	160 (6.30)	674 (26.54)	640 (25.20)	78 (3.07)	81 (3.19)	36 (1.42)
	1PH7167		406.5 (16.00)										734 (28.90)	700 (27.56)			

											DE shaft extension				
Shaft height	Type	DIN IEC	n AA	o –	p HD	s K	s ₂ K	s ₃ –	v –	w ₁ C	d D	d ₆ –	l E	t GA	u F
100	1PH710 .		39 (1.54)	161 (6.34)	220 (8.66)	12 (0.47)	14 (0.55)	Pg 29	10.5 (0.41)	40 (1.57)	38 (1.50)	M12	80 (3.15)	41 (1.61)	10 (0.39)
132	1PH713 .		52 (2.05)	211.5 (8.33)	275 (10.83)	12 (0.47)	18 (0.71)	Pg 36	17 (0.67)	50 (1.97)	42 (1.65)	M16	110 (4.33)	45 (1.77)	12 (0.47)
160	1PH716 .		62 (2.44)	253 (9.96)	330 (12.99)	14 (0.55)	18 (0.71)	Pg 42	17 (0.67)	64 (2.52)	55 (2.17)	M20	110 (4.33)	59 (2.32)	16 (0.63)

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

1PH710 .
1PH713 .
1PH716 .



AC motors

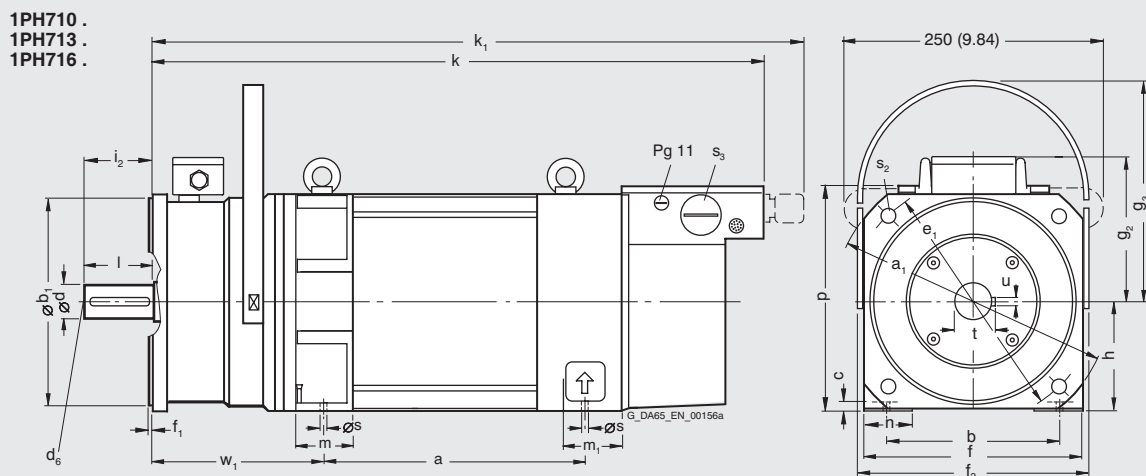
Dimension drawings - asynchronous motors

1PH7 motors
Forced ventilation

For motor		Dimensions in mm (in)															
Shaft height	Type	DIN IEC	a B	a ₁ P	b A	b ₁ N	c LA	e ₁ M	f AB	f ₁ T	f ₂ —	g ₂ —	g ₃ —	h H	i ₂ —	k LB	k ₁ —
Type IM B 35, with external fan unit, with brake module																	
100	1PH7101		202.5 (7.97)	250 (9.84)	160 (6.30)	180 (7.09)	11 (0.43)	215 (8.46)	196 (7.72)	4 (0.16)	220 (8.66)	149 (5.87)	224 (8.82)	100 (3.94)	80 (3.15)	541 (21.30)	564 (22.20)
	1PH7103																
	1PH7105		297.5 (11.71)													636 (25.04)	659 (25.94)
	1PH7107																
132	1PH7131		265.5 (10.45)	—	216 (8.50)	250 (9.84)	14 (0.55)	300 (11.81)	260 (10.24)	5 (0.20)	278 (10.94)	174 (6.85)	269 (10.59)	132 (5.20)	110 (4.33)	700 (27.56)	723 (28.46)
	1PH7133																
	1PH7135		350.5 (13.80)													785 (30.91)	808 (31.81)
	1PH7137																
160	1PH7163		346.5 (13.64)	400 (15.75)	254 (10.00)	300 (11.81)	17 (0.67)	350 (13.78)	314 (12.36)	5 (0.20)	327 (12.87)	199 (7.83)	328 (12.91)	160 (6.30)	110 (4.33)	808 (31.81)	831 (32.72)
	1PH7167		406.5 (16.00)													868 (34.17)	891 (35.08)

												DE shaft extension					
Shaft height	Type	DIN IEC	m BA	m ₁ –	m ₂ –	n AA	p –	s K	s ₂ –	s ₃ –	w ₁ C	d D	d ₆ –	l E	t GA	u F	
100	1PH7101		52	64	27	39	220	12	14	Pg 29	170	38	M12	80	41	10	
	1PH7103		(2.05)	(2.52)	(1.06)	(1.54)	(8.66)	(0.47)	(0.55)		(6.69)	(1.50)		(3.15)	(1.61)	(0.39)	
	1PH7105																
	1PH7107																
132	1PH7131		63	75	33	52	275	12	18	Pg 36	212	42	M16	110	45	12	
	1PH7133		(2.48)	(2.95)	(1.30)	(2.05)	(10.83)	(0.47)	(0.71)		(8.35)	(1.65)		(4.33)	(1.77)	(0.47)	
	1PH7135																
	1PH7137																
160	1PH7163		78	81	42	62	330	14	18	Pg 42	232	55	M20	110	59	16	
	1PH7167		(3.07)	(3.19)	(1.65)	(2.44)	(12.99)	(0.55)	(0.71)		(9.13)	(2.17)		(4.33)	(2.32)	(0.63)	

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



AC motors

Dimension drawings - asynchronous motors

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 (16.18)	453 (17.83)	81 (3.19)	52.5 (2.07)	63.5 (2.50)
	1PH7103						
	1PH7105		506 (19.92)	548 (21.57)			
	1PH7107						
132	1PH7131		538 (21.18)	580 (22.83)	103.5 (4.07)	66 (2.60)	63.5 (2.50)
	1PH7133						
	1PH7135		623 (24.53)	665 (26.18)			
	1PH7137						
160	1PH7163		640 (25.20)	682 (26.85)	127 (5.00)	75 (2.95)	63.5 (2.50)
	1PH7167		700 (27.56)	742 (29.21)			

1PH710 .
1PH713 .
1PH716 .

