

Asynchronous motors

Dimensional drawings

1PH7 motors Forced ventilation

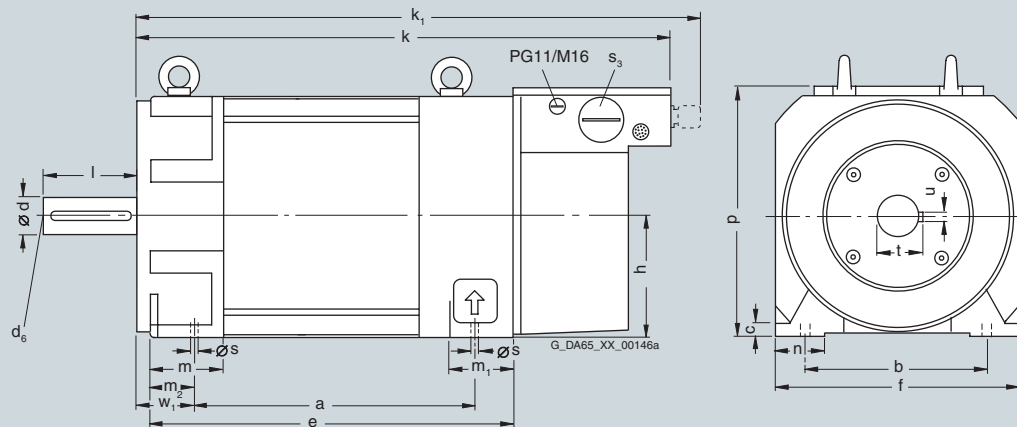
Dimensional drawings

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 –
1PH7, type of construction IM B3, forced ventilation																	
100	1PH7101		202.5	160	11	263	196	100	411	434	52	64	27	39	220	12	PG29/M32
	1PH7103		(7.97)	(6.30)	(0.43)	(10.35)	(7.72)	(3.94)	(16.18)	(17.09)	(2.05)	(2.52)	(1.06)	(1.54)	(8.66)	(0.47)	
	1PH7105 1PH7107		297.5 (11.71)			358 (14.09)			506 (19.92)	529 (20.83)							
132	1PH7131		265.5	216	14	341	260	132	538	561	63	75	33	52	275	12	PG36/M40
	1PH7133		(10.45)	(8.50)	(0.55)	(13.43)	(10.24)	(5.20)	(21.18)	(22.09)	(2.48)	(2.95)	(1.30)	(2.05)	(10.83)	(0.47)	
	1PH7135 1PH7137		350.5 (13.80)			426 (16.77)			623 (24.53)	646 (25.43)							
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)	PG42/M50
	1PH7167		406.5 (16.00)			498 (19.61)			700 (27.56)	723 (28.46)							

DE shaft extension

Shaft height	Type	DIN IEC	w ₁ C	d D	d ₆ –	l E	t GA	u F
100	1PH7101		40	38	M12	80	41	10
	1PH7103		(1.57)	(1.5)		(3.15)	(1.61)	(0.39)
	1PH7105 1PH7107							
132	1PH7131		50	42	M16	110	45	12
	1PH7133		(1.97)	(1.65)		(4.33)	(1.77)	(0.47)
	1PH7135 1PH7137							
160	1PH7163		64	55	M20	110	59	16
	1PH7167		(2.52)	(2.17)		(4.33)	(2.32)	(0.63)

1PH710
1PH713
1PH716

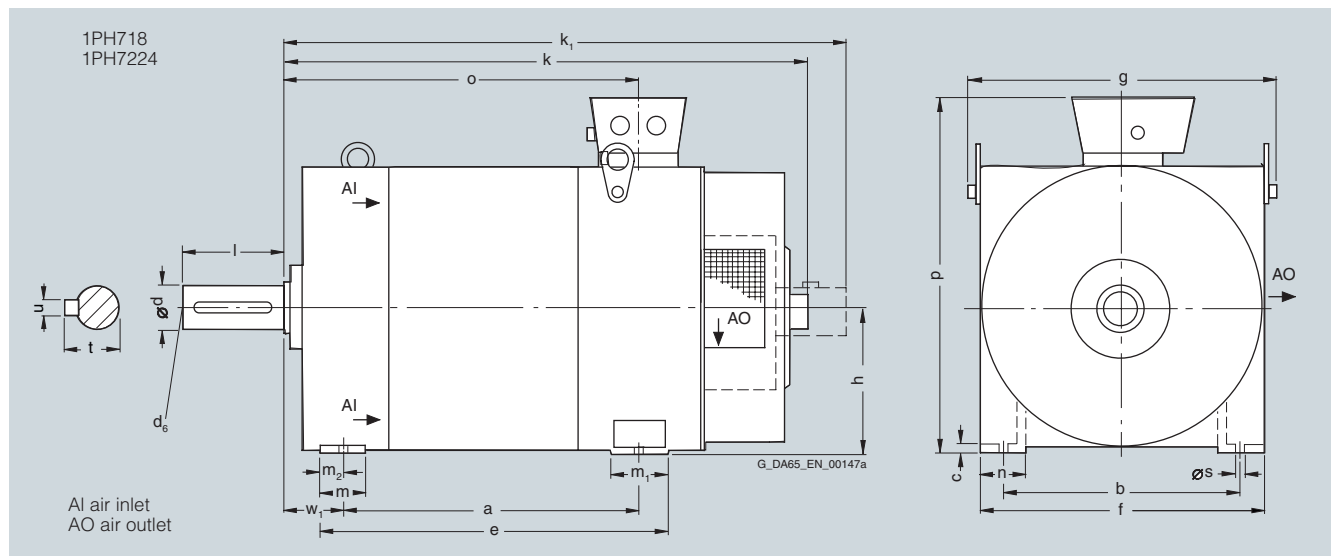


For deviating and additional dimensions of 1PH7 motors with DRIVE-CLiQ, see 1PH7 motors with DRIVE-CLiQ.

Dimensional drawings

For motor		Dimensions in mm (in)														Terminal box type 1XB7322	
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 –	p HD
1PH7, type of construction 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 (21.3)	495 (19.49)
	1PH7186		520 (20.47)			600 (23.62)				925 (36.42)						631 (24.84)	
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)

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 (0.72)
	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)



Asynchronous motors

Dimensional drawings

1PH7 motors Forced ventilation

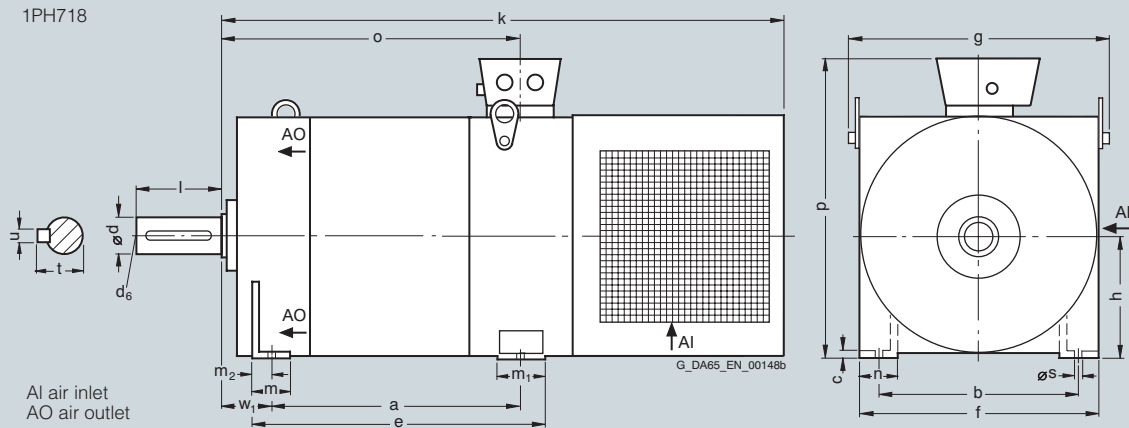
Dimensional drawings

For motor	Dimensions in mm (in)																Terminal box type 1XB7322
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 HD	
1PH7, type of construction IM B3, forced ventilation, direction of air flow NDE → 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 (21.3)	495 (19.49)	
	1PH7186		520 (20.47)			600 (23.62)				1100 (43.31)					631 (24.84)		
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)	

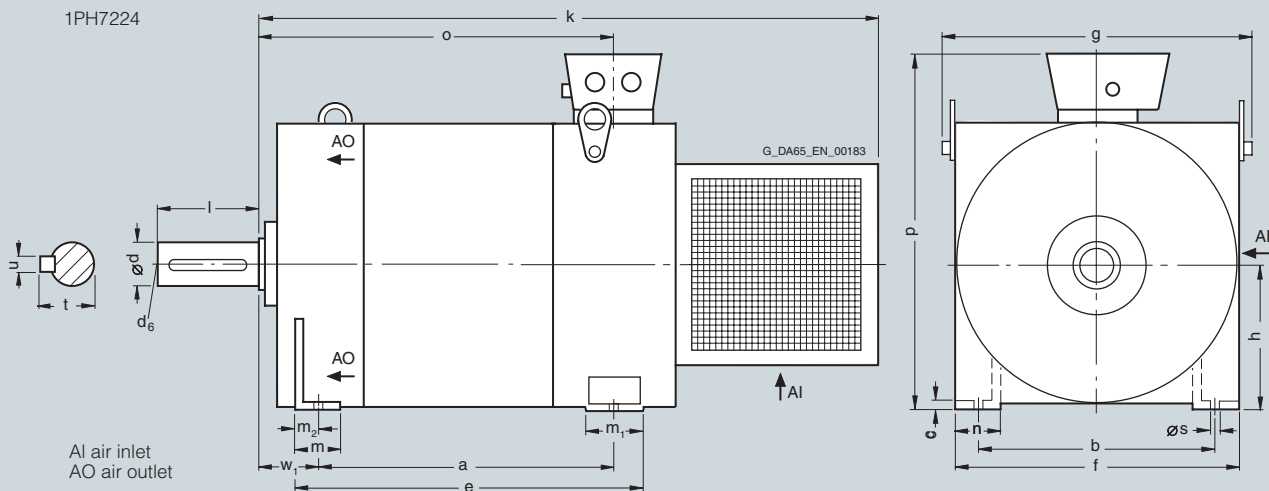
DE shaft extension

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)

1PH718



1PH7224



Asynchronous motors

Dimensional drawings

1PH7 motors
Forced ventilation

Dimensional drawings

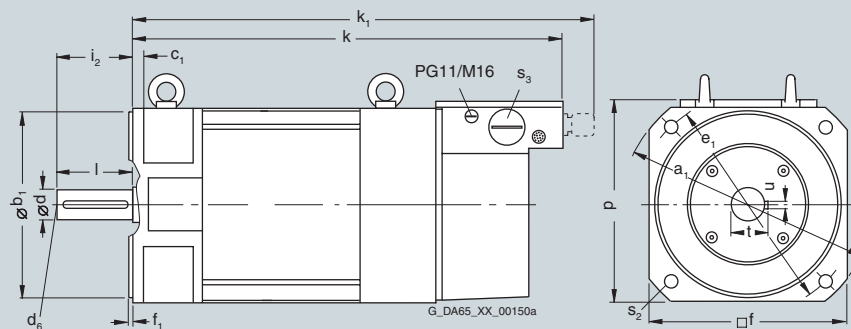
For motor Dimensions in mm (in)

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 –	p HD	s ₂ S	s ₃ –
1PH7, type of construction IM B5, forced ventilation														
100	1PH7101 1PH7103 1PH7105 1PH7107		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)	PG29/M32
										506 (19.92)	529 (20.83)			
132	1PH7131 1PH7133 1PH7135 1PH7137		350 (13.78)	250 (9.84)	16 (0.63)	300 (11.81)	260 (10.24)	5 (0.2)	110 (4.33)	538 (21.18)	561 (22.09)	273 (10.75)	18 (0.71)	PG36/M40
										623 (24.53)	646 (25.43)			

DE shaft extension

Shaft height	Type	DIN IEC	d D	d ₆ –	l E	t GA	u F
100	1PH7101 1PH7103 1PH7105 1PH7107		38 (1.5)	M12	80 (3.15)	41 (1.61)	10 (0.39)
132	1PH7131 1PH7133 1PH7135 1PH7137		42 (1.65)	M16	110 (4.33)	45 (1.77)	12 (0.47)

1PH710
1PH713



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

Asynchronous motors

Dimensional drawings

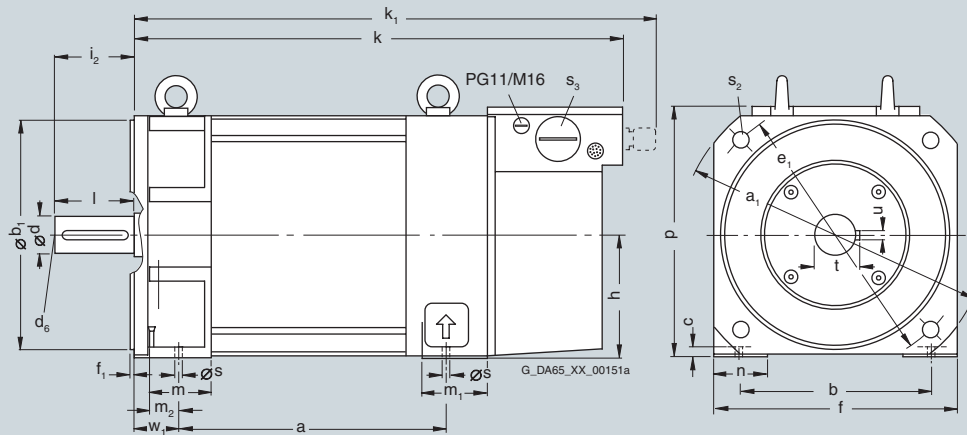
1PH7 motors Forced ventilation

Dimensional drawings

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 of construction IM B35, forced ventilation																			
100	1PH7101		202.5	250	160	180	11	215	196	4	100	80	411	435	52	64	27	39	220
	1PH7103		(7.97)	(9.84)	(6.3)	(7.09)	(0.43)	(8.46)	(7.72)	(0.16)	(3.94)	(3.15)	(16.18)	(17.13)	(2.05)	(2.52)	(1.06)	(1.54)	(8.66)
	1PH7105		297.5										506	529					
	1PH7107		(11.71)										(19.92)	(20.83)					
132	1PH7131		265.5	350	216	250	14	300	260	5	132	110	538	561	63	75	33	52	275
	1PH7133		(10.45)	(13.78)	(8.5)	(9.84)	(0.55)	(11.81)	(10.24)	(0.2)	(5.2)	(4.33)	(21.18)	(22.09)	(2.48)	(2.95)	(1.3)	(2.05)	(10.83)
	1PH7135		350.5										623	646					
	1PH7137		(13.8)										(24.53)	(25.43)					
160	1PH7163		346.5	400	254	300	17	350	314	5	160	110	640	663	78	81	42	62	330
			(13.64)	(15.75)	(10)	(11.81)	(0.67)	(13.78)	(12.36)	(0.2)	(6.3)	(4.33)	(25.2)	(26.1)	(3.07)	(3.19)	(1.65)	(2.44)	(12.99)
	1PH7167		406.5										700	723					
			(16)										(27.56)	(28.46)					

DE 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		12	14	PG29/M32	40	38	M12	80	41	10
	1PH7103		(0.47)	(0.55)		(1.57)	(1.5)		(3.15)	(1.61)	(0.39)
	1PH7105										
	1PH7107										
132	1PH7131		12	18	PG36/M40	50	42	M16	110	45	12
	1PH7133		(0.47)	(0.71)		(1.97)	(1.65)		(4.33)	(1.77)	(0.47)
	1PH7135										
	1PH7137										
160	1PH7163		14	18	PG42/M50	64	55	M20	110	59	16
	1PH7167		(0.47)	(0.71)		(2.52)	(2.17)		(4.33)	(2.32)	(0.63)

1PH710
1PH713
1PH716



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

Asynchronous motors

Dimensional drawings

1PH7 motors
Forced ventilation

Dimensional drawings

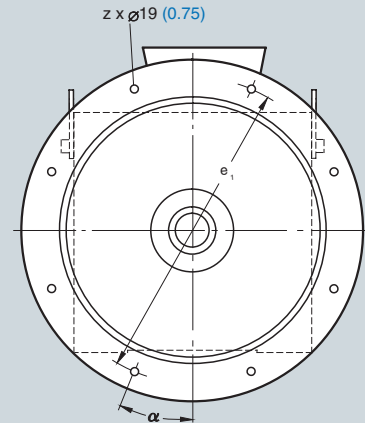
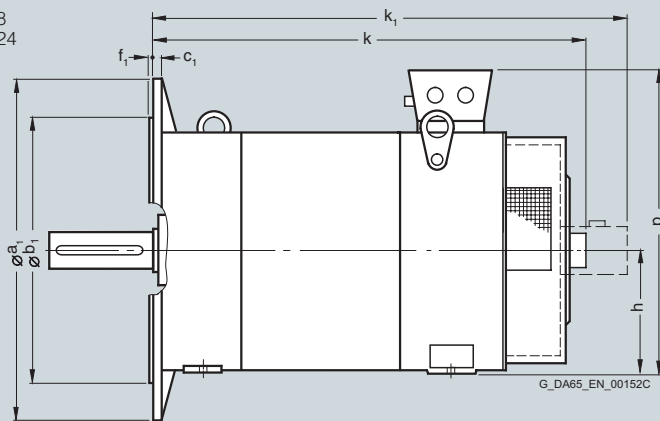
For motor Dimensions in mm (in)

For dimensions for foot mounting, shaft and terminal box, see dimensional drawing of 1PH718 and 1PH7224 motors, type of construction IM B3.

Terminal box type
1XB7322

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 –	p	z –	α –
1PH7, type of construction IM B35, forced ventilation, direction of air flow DE → NDE													
180	1PH7184 ¹⁾		400 (15.75)	300 (11.81)	15 (0.59)	350 (13.78)	5 (0.2)	180 (7.09)	835 (32.87)	–	495 (19.49)	4	45°
	1PH7184 ¹⁾		450 (17.72)	350 (13.78)	16 (0.63)	400 (15.75)			835 (32.87)			8	22.5°
	1PH7186								925 (36.42)				
225	1PH7224		550 (21.65)	450 (17.72)	18 (0.71)	500 (19.69)	5 (0.2)	225 (8.86)	–	1100 (43.31)	595 (23.43)	8	22.5°

1PH718
1PH7224



¹⁾ For flange selection, see order number supplement for SH 180 and SH 225.

Asynchronous motors

Dimensional drawings

1PH7 motors Forced ventilation

Dimensional drawings

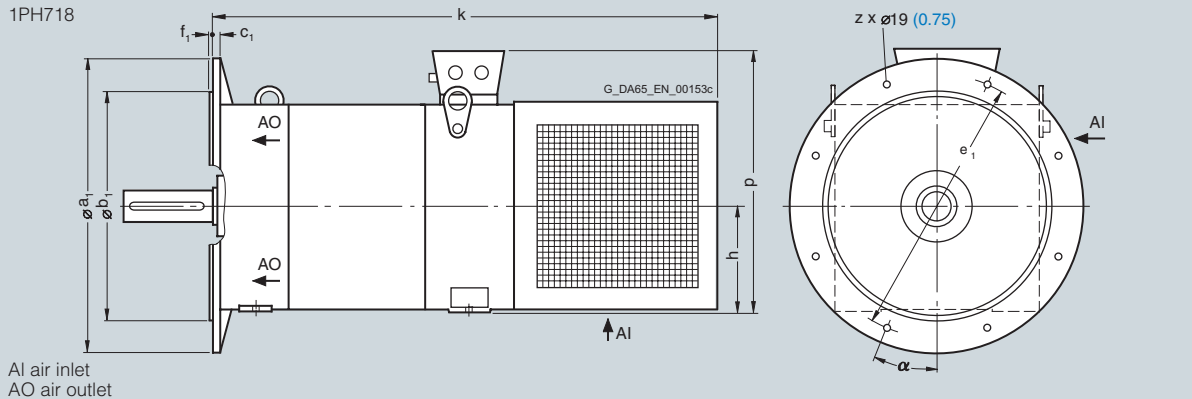
For motor Dimensions in mm (in)

For dimensions for foot mounting, shaft and terminal box, see dimensional drawing of 1PH718 and 1PH7224 motors, type of construction IM B3.

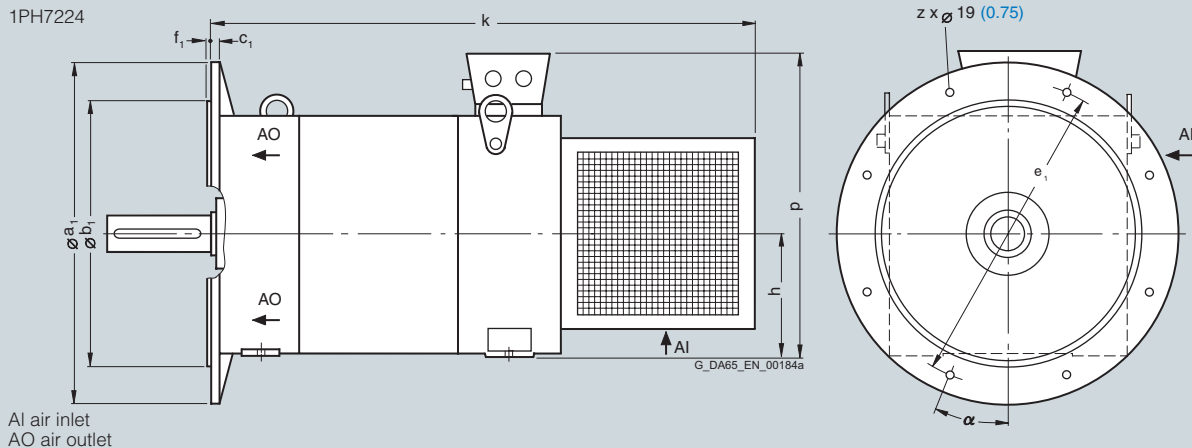
Terminal box type
1XB7322

Shaft height	Type	DIN IEC	a ₁ P	b ₁ N	c ₁ LA	e ₁ M	f ₁ T	h H	k LB	– p	z –	α –
1PH7, type of construction IM B35, forced ventilation, direction of air flow NDE → DE												
180	1PH7184 ¹⁾		400 (15.75)	300 (11.81)	15 (0.59)	350 (13.78)	5 (0.2)	180 (7.09)	1010 (39.76)	495 (19.49)	4	45°
	1PH7184 ¹⁾		450 (17.72)	350 (13.78)	16 (0.63)	400 (15.75)			1010 (39.76)		8	22.5°
	1PH7186								1100 (43.31)			
225	1PH7224		550 (21.65)	450 (17.72)	18 (0.71)	500 (19.69)	5 (0.2)	225 (8.86)	1090 (42.91)	595 (23.43)	8	22.5°

1PH718



1PH7224



¹⁾ For flange selection, see order number supplement for SH 180 and SH 225.

Asynchronous motors

Dimensional drawings

1PH7 motors with DRIVE-CLiQ
Forced ventilation

Dimensional drawings

For motor Dimensions in mm (in)

Shaft height	Type	DIN IEC	k LB	k ₁ –	p ₁ –	x –	y –
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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
	1PH7103	(16.18)	(17.83)	(3.19)	(2.07)	(2.50)
	1PH7105	506	548			
	1PH7107	(19.92)	(21.57)			
132	1PH7131	538	580	103.5	66	63.5
	1PH7133	(21.18)	(22.83)	(4.07)	(2.60)	(2.50)
	1PH7135	623	665			
	1PH7137	(24.53)	(26.18)			
160	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

