

Synchronous motors

Linear motors for SINAMICS S120

1FN3 standard type linear motors
version for peak loads – water cooling

Selection and Ordering Data

Feedrate force		Maximum velocity ³⁾		1FN3 linear motors – version for peak loads Water cooling		Weight approx.	
$F_{rated}^{1)2)}$	F_{MAX}	v_{MAX} at F_{MAX}	v_{MAX} at F_{rated}	Primary section Order No.	Secondary section Order No.	Primary section without/with precision cooling	Secondary section without/with heatsink profile
N (lb _f)	N (lb _f)	m/min (ft/min)	m/min (ft/min)			kg (lb)	kg (lb)
200 (45)	550 (123.6)	146 (479)	373 (1223.8)	1FN3050-2WC00-0AA0	1FN3050-4SA00-0AA0	2.4/2.9 (5.3/6.4)	0.4/0.5 (0.9/1.1)
200 (45)	490 (110.2)	138 (452.8)	322 (1056.4)	1FN3100-1WC00-0AA1	1FN3100-4SA00-0AA0	2.2/– (4.9/–) ⁴⁾	0.7/0.8 (1.5/1.8)
450 (101.2)	1100 (247.3)	131 (429.8)	297 (974.4)	1FN3100-2WC00-0AA1		3.8/4.4 (8.4/9.7)	
450 (101.2)	1100 (247.3)	237 (777.6)	497 (1630.6)	1FN3100-2WE00-0AA1		3.8/4.4 (8.4/9.7)	
675 (151.7)	1650 (370.9)	120 (393.8)	277 (908.8)	1FN3100-3WC00-0AA1		5.4/6.2 (11.9/13.7)	
675 (151.7)	1650 (370.9)	237 (777.6)	497 (1630.6)	1FN3100-3WE00-0AA1		5.4/6.2 (11.9/13.7)	
900 (202.3)	2200 (494.6)	131 (429.8)	297 (974.4)	1FN3100-4WC00-0AA1		7.4/8.5 (16.3/18.7)	
1125 (252.9)	2750 (618.2)	109 (357.6)	255 (836.6)	1FN3100-5WC00-0AA1		9.1/10.4 (20.1/22.9)	
340 (76.4)	820 (184.3)	126 (413.4)	282 (925.2)	1FN3150-1WC00-0AA1	1FN3150-4SA00-0AA0	3.0/– (6.6/–) ⁴⁾	1.2/1.3 (2.7/2.9)
675 (151.7)	1650 (370.9)	126 (413.4)	282 (925.2)	1FN3150-2WC00-0AA1		5.3/6 (11.7/13.2)	
1015 (228.2)	2470 (555.3)	126 (413.4)	282 (925.2)	1FN3150-3WC00-0AA1		7.8/8.7 (17.2/19.2)	
1350 (303.5)	3300 (741.8)	126 (413.4)	282 (925.2)	1FN3150-4WC00-0AA1		10.2/11.4 (22.5/25.1)	
1690 (379.9)	4120 (926.2)	126 (413.4)	282 (925.2)	1FN3150-5WC00-0AA1		12.8/14.2 (28.2/31.3)	
615 (138.3)	1720 (386.66)	128 (419.9)	309 (1013.8)	1FN3300-1WC00-0AA1	1FN3300-4SA00-0AA0	6.2/– (13.7/–) ⁴⁾	2.4/2.6 (5.3/5.7)
1225 (275.4)	3450 (775.56)	63 (206.7)	176 (577.4)	1FN3300-2WB00-0AA1		11.4/12.4 (25.1/27.3)	
1225 (275.4)	3450 (775.56)	125 (410.1)	297 (974.4)	1FN3300-2WC00-0AA1		11.4/12.4 (25.1/27.3)	
1840 (413.6)	5170 (1162.22)	125 (410.1)	297 (974.4)	1FN3300-3WC00-0AA1		17/18.4 (37.5/40.6)	
2450 (550.8)	6900 (1551.12)	63 (206.7)	176 (577.4)	1FN3300-4WB00-0AA1		22.2/24 (48.9/52.9)	
2450 (550.8)	6900 (1551.12)	125 (410.1)	297 (974.4)	1FN3300-4WC00-0AA1		22.2/24 (48.9/52.9)	
One temperature monitoring circuit:		Temp-S				0	
Two temperature monitoring circuits:		Temp-S and Temp-F				1	

Dimension drawings

Primary section	Dimensions in mm (in)					Secondary section	Dimensions in mm (in)				
	without precision cooling		with precision cooling		Primary section length L_P		without precision cooling		with precision cooling and cover		Second- ary section length L_S
Type	b_M	h_M	b_M	h_M			Type	b_S	h_S	b_S	
1FN3, version for peak loads – water cooling											
1FN3050-2W	67 (2.64)	48.5 (1.91)	76 (2.99)	63.4 (2.50)	255 (10.04)	1FN3050-4SA00-0AA0	58 (2.28)	11.8 (0.46)	75 (2.95)	14.8 (0.58)	120 (4.72)
1FN3100-1W	96 (3.78)	48.5 (1.91)	–	–	150 (5.91)	1FN3100-4SA00-0AA0	88 (3.46)	11.8 (0.46)	105 (4.13)	14.8 (0.58)	120 (4.72)
1FN3100-2W	96 (3.78)	48.5 (1.91)	105 (4.13)	63.4 (2.50)	255 (10.04)						
1FN3100-3W	96 (3.78)	48.5 (1.91)	105 (4.13)	63.4 (2.50)	360 (14.17)						
1FN3100-4W	96 (3.78)	48.5 (1.91)	105 (4.13)	63.4 (2.50)	465 (18.31)						
1FN3100-5W	96 (3.78)	48.5 (1.91)	105 (4.13)	63.4 (2.50)	570 (22.44)						
1FN3150-1W	126 (4.96)	50.5 (1.99)	–	–	150 (5.91)	1FN3150-4SA00-0AA0	118 (4.65)	13.8 (0.54)	135 (5.31)	16.8 (0.66)	120 (4.72)
1FN3150-2W	126 (4.96)	50.5 (1.99)	135 (5.31)	65.4 (2.57)	255 (10.04)						
1FN3150-3W	126 (4.96)	50.5 (1.99)	135 (5.31)	65.4 (2.57)	360 (14.17)						
1FN3150-4W	126 (4.96)	50.5 (1.99)	135 (5.31)	65.4 (2.57)	465 (18.31)						
1FN3150-5W	126 (4.96)	50.5 (1.99)	135 (5.31)	65.4 (2.57)	570 (22.44)						
1FN3300-1W	141 (5.55)	64.1 (2.52)	–	–	221 (8.70)	1FN3300-4SA00-0AA0	134 (5.28)	16.5 (0.65)	151 (5.94)	19.5 (0.77)	184 (7.24)
1FN3300-2W	141 (5.55)	64.1 (2.52)	151 (5.94)	79 (3.11)	382 (15.04)						
1FN3300-3W	141 (5.55)	64.1 (2.52)	151 (5.94)	79 (3.11)	543 (21.38)						
1FN3300-4W	141 (5.55)	64.1 (2.52)	151 (5.94)	79 (3.11)	704 (27.72)						

Synchronous motors

Linear motors for SINAMICS S120

1FN3 standard type linear motors
version for peak loads – water cooling

Selection and Ordering Data

Motor type Primary section (continued)	Motor phase current		Calculated power P_{calc} kW (HP)	SINAMICS Motor Module		Power cable with complete shield Motor connection via adapter cable with power connector for increased velocity/acceleration			
	I_{rated} ¹⁾	I_{MAX}		Required rated current I_{rated}/I_{MAX}	Order No.	Order No.	Cable cross- section	Order No.	
	A	A		A	For complete Order No., see "SINAMICS S120 drive system".	Pre-assembled adapter cable	Motor mm ²	Power con- nector Size	Pre-assembled cable
1FN3050-2WC00-...	2.7	8.2	4.1 (5.5)	5/10	6SL312 - TE15-0A..	Pre-assembled cables available soon.			
1FN3100-1WC00-...	2.4	6.5	3.1 (4.16)	5/10	6SL312 - TE15-0A..				
1FN3100-2WC00-...	5.1	13.5	6.3 (8.45)	9/18	6SL312 - TE21-0A..				
1FN3100-2WE00-...	8.1	21.5	8.3 (11.13)	18/36	6SL312 - TE21-8A..				
1FN3100-3WC00-...	7.2	19.1	9.2 (12.33)	18/36	6SL312 - TE21-8A..				
1FN3100-3WE00-...	12.1	32.2	12.4 (16.62)	18/36	6SL312 - TE21-8A..				
1FN3100-4WC00-...	10.1	27.0	12.6 (16.89)	18/36	6SL312 - TE21-8A..				
1FN3100-5WC00-...	11.0	29.5	14.4 (19.3)	18/36	6SL312 - TE21-8A..				
1FN3150-1WC00-...	3.6	9.5	4.3 (5.76)	5/10	6SL312 - TE15-0A..				
1FN3150-2WC00-...	7.2	19.1	8.7 (11.66)	18/36	6SL312 - TE21-8A..				
1FN3150-3WC00-...	10.7	28.6	13.0 (17.43)	18/36	6SL312 - TE21-8A..				
1FN3150-4WC00-...	14.3	38.2	17.4 (23.32)	30/56	6SL312 - 1 TE23-0A..				
1FN3150-5WC00-...	17.9	47.7	21.7 (29.09)	30/56	6SL312 - 1 TE23-0A..				
1FN3300-1WC00-...	6.5	20.0	8.7 (11.66)	18/36	6SL312 - TE21-8A..				
1FN3300-2WB00-...	8.0	24.7	13.2 (17.69)	18/36	6SL312 - TE21-8A..				
1FN3300-2WC00-...	12.6	39.2	16.8 (22.52)	30/56	6SL312 - 1 TE23-0A..				
1FN3300-3WC00-...	19.0	58.7	25.1 (33.65)	60/113	6SL312 - 1 TE26-0A..				
1FN3300-4WB00-...	16.0	49.4	26.3 (35.25)	30/56	6SL312 - 1 TE23-0A..				
1FN3300-4WC00-...	25.3	78.3	33.5 (44.91)	60/113	6SL312 - 1 TE26-0A..				

Cooling:

Internal air cooling
External air cooling

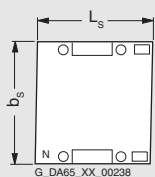
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Motor Module:

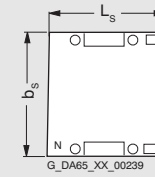
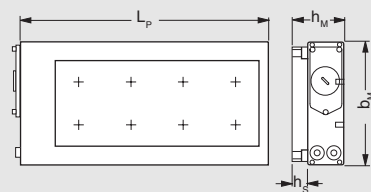
Single Motor Module
Double Motor Module

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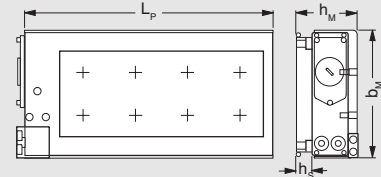
Dimension drawings



1FN3050 to 1FN3450 without precision cooling



1FN3050 to 1FN3450 with precision cooling



- For water cooling with inlet temperature 35 °C (95 °F).
- A reduction of up to 30% must be expected in case of motor standstill, at very low speeds, or with very short traverse paths.
- Velocity values refer to a converter DC link voltage of 600 V DC.
- No precision cooler available.

Synchronous motors

Linear motors for SINAMICS S120

1FN3 standard type linear motors
version for peak loads – water cooling

Selection and Ordering Data

Feedrate force		Maximum velocity ³⁾		1FN3 linear motors – version for peak loads Water cooling		Weight approx.	
$F_{rated}^{1) 2)}$	F_{MAX}	v_{MAX} at F_{MAX}	v_{MAX} at F_{rated}	Primary section Order No.	Secondary section Order No.	Primary section without/with precision cooling	Secondary section without/with heatsink profile
N (lb _f)	N (lb _f)	m/min (ft/min)	m/min (ft/min)			kg (lb)	kg (lb)
1930 (433.9)	5180 (1164.5)	30 (98.4)	112 (367.5)	1FN3450-2WA50-0AA1	1FN3450-4SA00-0AA0	15.9/17.1 (35.1/37.7)	3.8/4 (8.4/8.8)
1930 (433.9)	5180 (1164.5)	120 (393.7)	275 (902.2)	1FN3450-2WC00-0AA1		15.9/17.1 (35.1/37.7)	
2895 (650.8)	7760 (1744.5)	62 (203.4)	164 (538.1)	1FN3450-3WB00-0AA1		22.6/24.3 (49.8/53.6)	
2895 (650.8)	7760 (1744.5)	120 (393.7)	275 (902.2)	1FN3450-3WC00-0AA1		22.6/24.3 (49.8/53.6)	
3860 (867.7)	10350 (2326.7)	62 (203.4)	164 (538.1)	1FN3450-4WB00-0AA1		30.9/33.1 (68.1/73)	
3860 (867.7)	10350 (2326.7)	120 (393.7)	275 (902.2)	1FN3450-4WC00-0AA1		30.9/33.1 (68.1/73)	
3860 (867.7)	10350 (2326.7)	240 (787.4)	519 (1702.8)	1FN3450-4WE00-0AA1		30.9/33.1 (68.1/73)	
2610 (586.7)	6900 (1551.1)	36 (118.1)	120 (393.7)	1FN3600-2WA50-0AA1	1FN3600-4SA00-0AA0	22.2/24.7 (49/54.5)	4.6/5 (10.1/11)
3915 (880.1)	10350 (2326.7)	58 (190.3)	155 (508.5)	1FN3600-3WB00-0AA1		31.5/33.4 (69.5/73.7)	
3915 (880.1)	10350 (2326.7)	112 (367.5)	254 (833.3)	1FN3600-3WC00-0AA1		31.5/33.4 (69.5/73.7)	
5220 (1173.5)	13800 (3102.2)	58 (190.3)	155 (508.5)	1FN3600-4WB00-0AA1		40.8/43.3 (90/95.5)	
5220 (1173.5)	13800 (3102.2)	91 (298.6)	215 (705.4)	1FN3600-4WB50-0AA1		40.8/43.3 (90/95.5)	
5220 (1173.5)	13800 (3102.2)	112 (367.5)	254 (833.3)	1FN3600-4WC00-0AA1		40.8/43.3 (90/95.5)	
4050 (910.4)	10350 (2326.7)	65 (213.3)	160 (524.9)	1FN3900-2WB00-0AA1	1FN3900-4SA00-0AA0	28.2/29.7 (62.2/65.4)	7.5/7.9 (16.5/17.4)
4050 (910.4)	10350 (2326.7)	115 (377.3)	253 (830.1)	1FN3900-2WC00-0AA1		28.2/29.7 (62.2/65.4)	
6075 (1365.7)	15530 (3491.1)	75 (246.1)	181 (593.8)	1FN3900-3WB00-0AA1		42.2/44.3 (93.1/97.6)	
8100 (1820.9)	20700 (4653.4)	65 (213.3)	160 (524.9)	1FN3900-4WB00-0AA1		56.2/58.9 (124/130)	
8100 (1820.9)	20700 (4653.4)	115 (377.3)	253 (830)	1FN3900-4WC00-0AA1		56.2/58.9 (124/130)	

Two temperature monitoring circuits: Temp-S and Temp-F 1

Dimension drawings

Primary section	Dimensions in mm (in)					Secondary section	Dimensions in mm (in)				
	without precision cooling		with precision cooling		Primary section length L_P		without precision cooling		with precision cooling and cover		Secondary section length L_S
Type	b_M	h_M	b_M	h_M		Type	b_S	h_S	b_S	h_S	
1FN3, version for peak loads – water cooling											
1FN3450-2W	188 (7.40)	66.1 (2.60)	197 (7.76)	81 (3.19)	382 (15.04)	1FN3450-4SA00-0AA0	180 (7.09)	18.5 (0.73)	197 (7.76)	21.5 (0.85)	184 (7.24)
1FN3450-3W	188 (7.40)	66.1 (2.60)	197 (7.76)	81 (3.19)	543 (21.38)						
1FN3450-4W	188 (7.40)	66.1 (2.60)	197 (7.76)	81 (3.19)	704 (27.72)						
1FN3600-2W	248 (9.76)	64.1 (2.52)	257 (10.12)	86 (3.39)	382 (15.04)	1FN3600-4SA00-0AA0	240 (9.45)	16.5 (0.65)	247 (9.72)	26.5 (1.04)	184 (7.24)
1FN3600-3W	248 (9.76)	64.1 (2.52)	257 (10.12)	86 (3.39)	543 (21.38)						
1FN3600-4W	248 (9.76)	64.1 (2.52)	257 (10.12)	86 (3.39)	704 (27.72)						
1FN3900-2W	342 (13.46)	66.1 (2.60)	351 (13.82)	88 (3.46)	382 (15.04)	1FN3900-4SA00-0AA0	334 (13.15)	18.5 (0.73)	341 (13.43)	28.5 (1.12)	184 (7.24)
1FN3900-3W	342 (13.46)	66.1 (2.60)	351 (13.82)	88 (3.46)	543 (21.38)						
1FN3900-4W	342 (13.46)	66.1 (2.60)	351 (13.82)	88 (3.46)	704 (27.72)						

1) For water cooling with inlet temperature 35 °C (95 °F).

2) A reduction of up to 30% must be expected in case of motor standstill, at very low speeds, or with very short traverse paths.

3) Velocity values refer to a converter DC link voltage of 600 V DC.

4) No precision cooler available.

Synchronous motors

Linear motors for SINAMICS S120

1FN3 standard type linear motors
version for peak loads – water cooling

Selection and Ordering Data

Motor type Primary section (continued)	Motor phase current		Calculated power	SINAMICS Motor Module		Power cable with complete shield Motor connection via adapter cable with power connector for increased velocity/acceleration		
	I_{rated}^1	I_{MAX}		Required rated current	Order No.	Order No.	Cable cross- section	
	A	A	P_{calc} kW (HP)	I_{rated}/I_{MAX}	A	For complete Order No., see "SINAMICS S120 drive system".	Pre-assembled adapter cable	Motor Power con- nector Size mm ²
1FN3450-2WA50-...	8.6	25.3	15.9 (21.31)	18/36	6SL312 - TE21-8A..	Pre-assembled cables available soon.		
1FN3450-2WC00-...	18.8	55.3	23.1 (30.97)	30/56	6SL312 - TE23-0A..			
1FN3450-3WB00-...	17.9	52.7	27.5 (36.86)	30/56	6SL312 - TE23-0A..			
1FN3450-3WC00-...	28.1	83.0	34.6 (46.38)	60/113	6SL312 - TE26-0A..			
1FN3450-4WB00-...	23.8	70.3	36.7 (49.2)	60/113	6SL312 - TE26-0A..			
1FN3450-4WC00-...	37.5	110.6	46.2 (61.93)	60/113	6SL312 - TE26-0A..			
1FN3450-4WE00-...	67.6	199.5	65.3 (87.53)	132/210	6SL312 - TE31-3A..			
1FN3600-2WA50-...	12.4	36.0	21.9 (29.36)	18/36	6SL312 - TE21-8A..			
1FN3600-3WB00-...	23.2	67.3	35.4 (47.45)	60/113	6SL312 - TE26-0A..			
1FN3600-3WC00-...	35.2	102.4	41.6 (55.76)	60/113	6SL312 - TE26-0A..			
1FN3600-4WB00-...	30.9	89.8	47.2 (63.27)	60/113	6SL312 - TE26-0A..			
1FN3600-4WB50-...	40.8	118.5	52.2 (69.97)	85/141	6SL312 - TE28-5A..			
1FN3600-4WC00-...	46.9	136.5	55.5 (74.4)	85/141	6SL312 - TE28-5A..			
1FN3900-2WB00-...	24.7	69.5	34.5 (46.25)	60/113	6SL312 - TE26-0A..			
1FN3900-2WC00-...	36.7	103.3	41.0 (54.96)	60/113	6SL312 - TE26-0A..			
1FN3900-3WB00-...	40.6	114.0	54.5 (73.06)	85/141	6SL312 - TE28-5A..			
1FN3900-4WB00-...	49.4	138.9	68.9 (92.36)	85/141	6SL312 - TE28-5A..			
1FN3900-4WC00-...	73.5	206.5	81.9 (109.79)	132/210	6SL312 - TE31-3A..			

Cooling:

Internal air cooling
External air cooling

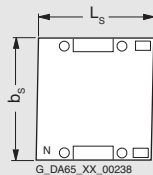
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Motor Module:

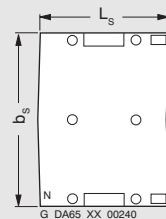
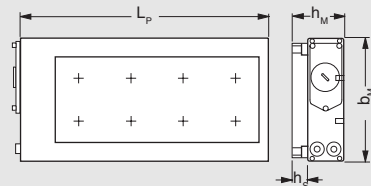
Single Motor Module
Double Motor Module

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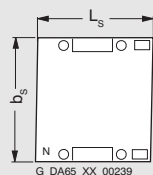
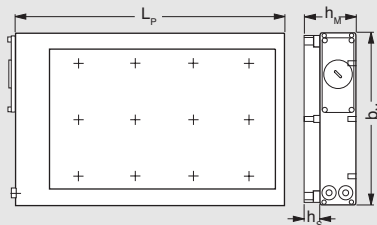
Dimension drawings



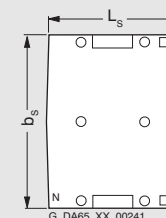
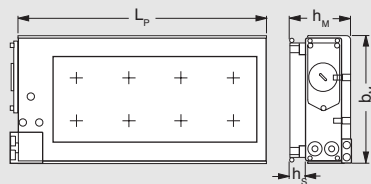
1FN3050 to 1FN3450 without precision cooling



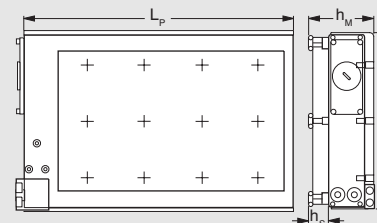
1FN3600 to 1FN3900 without precision cooling
Note: 4-row drill pattern with 1FN3900 for fixing the primary section



1FN3050 to 1FN3450 with precision cooling



1FN3600 to 1FN3900 with precision cooling
Note: 4-row drill pattern with 1FN3900 for fixing the primary section



Synchronous motors

Linear motors for SINAMICS S120

1FN3 standard type linear motors version for continuous load – water cooling

Selection and Ordering Data

Feedrate force		Maximum velocity ³⁾		1FN3 linear motors – version for continuous load – water cooling		Weight approx.	
$F_{rated}^{1)2)}$	F_{MAX}	v_{MAX} at F_{MAX}	v_{MAX} at F_{rated}	Primary section Order No.	Secondary section Order No.	Primary section without/with precision cooling	Secondary section without/with heatsink profile
N (lb _f)	N (lb _f)	m/min (ft/min)	m/min (ft/min)			kg (lb)	kg (lb)
150 (33.7) ⁵⁾ 300 (67.4) ⁵⁾	260 (58.5) ⁵⁾ 510 (114.7) ⁵⁾	249 (817) 109 (357.6)	448 (1468.9) 208 (682.5)	1FN3050-1NE...-0AA0 ⁶⁾ 1FN3050-2NC...-0AA0 ⁶⁾	1FN3050-4SA00-0AA0 ⁴⁾		0,4/0,5 (0.88/1.1) 0,4/0,5 (0.88/1.1)
300 (67.4) 605 (136) 905 (203.5) 1205 (270.9)	510 (114.7) 1020 (229.3) 1530 (344) 2040 (458.6)	121 (397) 176 (577.5) 118 (387.2) 175 (574.2)	221 (725.1) 318 (1043.4) 218 (715.3) 316 (1036.8)	1FN3100-1NC10-0AA1 1FN3100-2ND10-0AA1 1FN3100-3NC10-0AA1 1FN3100-4ND10-0AA1	1FN3100-4SA00-0AA0 ⁴⁾		0,7/0,8 (1.54/1.76)
455 (102.3) 905 (203.5) 1360 (305.7) 1810 (406.9)	770 (173.1) 1530 (344) 2300 (517.1) 3060 (687.9)	134 (439.7) 114 (374) 168 (551.2) 113 (370.8)	241 (790.7) 208 (682.5) 302 (990.9) 207 (679.2)	1FN3150-1NC10-0AA1 1FN3150-2NC10-0AA1 1FN3150-3ND10-0AA1 1FN3150-4NC10-0AA1	1FN3150-4SA00-0AA0 ⁴⁾		1,2/1,3 (2.65/2.87)
865 (194.5) ⁵⁾ 1730 (388.9) ⁵⁾ 2595 (583.4) ⁵⁾ 3460 (777.8) ⁵⁾	1470 (330.5) ⁵⁾ 2940 (660.9) ⁵⁾ 4400 (989.2) ⁵⁾ 5870 (1319.6) ⁵⁾	129 (423.3) 127 (416.7) 143 (469.2) 108 (354.4)	230 (754.6) 228 (748.1) 256 (839.9) 196 (643.1)	1FN3300-1NC...-0AA1 ⁶⁾ 1FN3300-2NC...-0AA1 ⁶⁾ 1FN3300-3NC...-0AA1 ⁶⁾ 1FN3300-4NC...-0AA1 ⁶⁾	1FN3300-4SA00-0AA0 ⁴⁾		2,4/2,6 (5.29/5.73)
2595 (583.4) ⁵⁾ 3890 (874.5) ⁵⁾ 5185 (1165.6) ⁵⁾	4400 (989.2) ⁵⁾ 6600 (1483.7) ⁵⁾ 8810 (1980.6) ⁵⁾	153 (502) 152 (498.7) 106 (347.8)	270 (885.9) 270 (885.9) 190 (623.4)	1FN3450-2ND...-0AA1 ⁶⁾ 1FN3450-3ND...-0AA1 ⁶⁾ 1FN3450-4NC...-0AA1 ⁶⁾	1FN3450-4SA00-0AA0		3,8/4 (8.38/8.82)
3460 (777.8) ⁵⁾ 5185 (1165.6) ⁵⁾ 6915 (1554.6) ⁵⁾	5870 (1319.6) ⁵⁾ 8810 (1980.6) ⁵⁾ 11740 (2639.3) ⁵⁾	112 (367.5) 112 (367.5) 112 (367.5)	201 (659.5) 200 (656.2) 200 (656.2)	1FN3600-2NC...-0AA1 ⁶⁾ 1FN3600-3NC...-0AA1 ⁶⁾ 1FN3600-4NC...-0AA1 ⁶⁾	1FN3600-4SA00-0AA0		4,6/5 (10.14/11.03)
5185 (1165.6) ⁵⁾ 7780 (1749) ⁵⁾ 10375 (2332.4) ⁵⁾	8810 (1980.6) ⁵⁾ 13210 (2969.7) ⁵⁾ 17610 (3958.9) ⁵⁾	71 (233) 71 (233) 71 (233)	130 (426.5) 130 (426.5) 130 (426.5)	1FN3900-2NB...-0AA1 ⁶⁾ 1FN3900-3NB...-0AA1 ⁶⁾ 1FN3900-4NB...-0AA1 ⁶⁾	1FN3900-4SA00-0AA0		7,5/7,9 (16.54/17.42)

One temperature monitoring circuit:

Temp-S **0**

Two temperature monitoring circuits:

Temp-S and Temp-F **1**

Dimension drawings

Primary section	Dimensions in mm (in)			Secondary section	without precision cooling		
	without precision cooling		Primary section length		without precision cooling		Secondary section length
Type	b_M	h_M	L_P	Type	b_S	h_S	L_S
1FN3, version for continuous load – water cooling							
1FN3050-1NE	67 (2.64)	59.4 (2.34)	160 (6.3)	1FN3050-4SA00-0AA0	58 (2.28)	11.8 (0.46)	120 (4.72)
1FN3050-2NC	67 (2.64)	59.4 (2.34)	265 (10.4)				
1FN3100-1NC	96 (3.78)	59.4 (2.34)	160 (6.3)	1FN3100-4SA00-0AA0	88 (3.46)	11.8 (0.46)	120 (4.72)
1FN3100-2ND	96 (3.78)	59.4 (2.34)	265 (10.4)				
1FN3100-3NC	96 (3.78)	59.4 (2.34)	370 (14.6)				
1FN3100-4ND	96 (3.78)	59.4 (2.34)	475 (18.7)				
1FN3150-1NC	126 (4.96)	61.4 (2.42)	160 (6.3)	1FN3150-4SA00-0AA0	118 (4.65)	13.8 (0.54)	120 (4.72)
1FN3150-2NC	126 (4.96)	61.4 (2.42)	265 (10.4)				
1FN3150-3ND	126 (4.96)	61.4 (2.42)	370 (14.6)				
1FN3150-4NC	126 (4.96)	61.4 (2.42)	475 (18.7)				
1FN3300-1NC	141 (5.55)	78 (3.07)	236 (9.3)	1FN3300-4SA00-0AA0	134 (5.28)	16.5 (0.65)	184 (7.24)
1FN3300-2NC	141 (5.55)	78 (3.07)	397 (15.6)				
1FN3300-3NC	141 (5.55)	78 (3.07)	558 (22)				
1FN3300-4NC	141 (5.55)	78 (3.07)	719 (28.3)				
1FN3450-2ND	188 (7.40)	80 (3.15)	397 (15.6)	1FN3450-4SA00-0AA0	180 (7.09)	18.5 (0.73)	184 (7.24)
1FN3450-3ND	188 (7.40)	80 (3.15)	558 (22)				
1FN3450-4NC	188 (7.40)	80 (3.15)	719 (28.3)				
1FN3600-2NC	248 (9.76)	78 (3.07)	397 (15.6)	1FN3600-4SA00-0AA0	240 (9.45)	16.5 (0.65)	184 (7.24)
1FN3600-3NC	248 (9.76)	78 (3.07)	558 (22)				
1FN3600-4NC	248 (9.76)	78 (3.07)	719 (28.3)				
1FN3900-2NB	342 (13.46)	80 (3.15)	397 (15.6)	1FN3900-4SA00-0AA0	334 (13.15)	18.5 (0.73)	184 (7.24)
1FN3900-3NB	342 (13.46)	80 (3.15)	558 (22)				
1FN3900-4NB	342 (13.46)	80 (3.15)	719 (28.3)				