



Y2-ODP160~355 SERIES

400V 50HZ INS. CL. F

TEMPERATURE RISE 80K

OPEN DRIP PROOF IP23 IC01

AMBIENT TEMPERATURE -20 ~ 40°C

ELEVATION SITE LESS THAN 1000 M

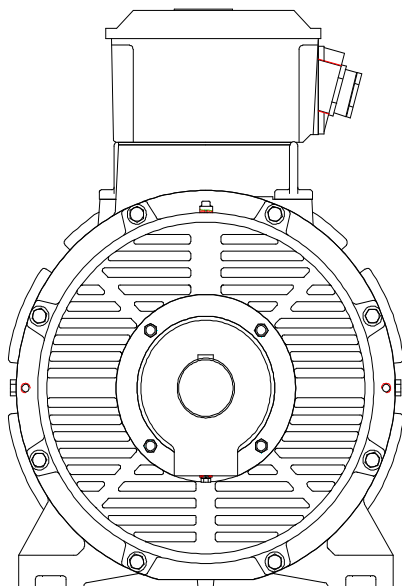
CAST IRON STRUCTURE CONTINUOUS DUTY S1

SERVICE FACTOR 1.0 FOR FAN AND GENERAL COMPRESSOR

SERVICE FACTOR 1.2 FOR SCREW COMPRESSOR

THREE PHASE ASYNCHRONOUS MOTOR WITH SQUIRREL CAGTE

EQUIVALENT STANDARD IEC60034 IEC60072 AND DIN42673



TECHNICAL SPECIFICATIONS (400V 50Hz)

Motor Type	Rated Power		Current	Rated Speed	Power Factor	Efficiency	Locked Current	Locked Torque	Maximum Torque	Moment of inertia	Weight
	KW	HP	(400V) A	r/min	cosφ	η%	Rated Current	Rated Torque	Rated Torque	J kgm ²	kg
Y2-ODP 160M-2	15	20	27.8	2920	0.87	89.4	7	2	2.3	0.067	132
Y2-ODP 160L-2	18.5	25	34.1	2920	0.87	90.0	7.5	2.1	2.5	0.068	141
Y2-ODP 160LX-2	22	30	39.9	2920	0.88	90.5	7.9	2.1	2.5	0.070	152
Y2-ODP 180M-2	30	40	54.7	2940	0.88	90.0	7	2.2	2.8	0.125	210
Y2-ODP 180L-2	37	50	65.9	2940	0.89	91.0	7	2.2	2.8	0.135	222
Y2-ODP 200M-2	45	60	80.8	2940	0.88	91.3	7	2.1	2.7	0.200	285
Y2-ODP 200L-2	55	75	98.6	2940	0.88	91.5	7	2.1	2.7	0.220	297
Y2-ODP 225M-2	75	100	132.5	2950	0.89	91.8	7.5	2.1	2.8	0.300	370
Y2-ODP 250S-2	90	120	156.1	2960	0.89	93.5	7.8	2.1	3	0.570	507
Y2-ODP 250M-2	110	150	190.2	2965	0.89	93.8	7.8	2.1	3	0.670	543
Y2-ODP 280M-2	132	180	228.0	2965	0.89	93.9	7.5	2.2	3	0.793	700
Y2-ODP 315S-2 (A)	160	215	282.4	2970	0.87	94.0	6.5	1.6	2.8	1.592	1002
Y2-ODP 315M-2 (A)	200	270	352.3	2965	0.87	94.2	7.2	1.6	2.8	1.751	1050
Y2-ODP 315LA-2 (A)	250	335	439.4	2965	0.87	94.4	7.2	1.6	2.8	1.935	1095
Y2-ODP 315LB-2 (A)	280	375	491.6	2970	0.87	94.5	7	1.8	2.8	2.177	1145
Y2-ODP 315LX-2 (A)	315	420	550.1	2970	0.87	95.0	7	1.9	3	2.503	1240
Y2-ODP 315LY-2 (B)	355	475	609.7	2970	0.88	95.5	7	1.5	2.1	2.629	1346
Y2-ODP 315LZA-2 (B)	400	535	684.9	2970	0.88	95.8	7	1.8	3	2.997	1410
Y2-ODP 315LZB-2 (B)	450	600	768.9	2970	0.88	96.0	7	1.5	2.1	3.145	1500
Y2-ODP 355M-2	500	670	833.6	2990	0.90	96.2	6.5	1.3	2.7	4.500	1620
Y2-ODP 355MX-2	560	750	931.7	2980	0.90	96.4	6.5	1.3	2.7	5.000	1760
Y2-ODP 355L-2	630	840	1047	2990	0.90	96.5	6.5	1.3	2.7	5.340	1855
Y2-ODP 355LX-2	710	950	1178.8	2975	0.90	96.6	6.5	1.3	2.7	5.340	1880
Y2-ODP 160M-4	11	15	22.8	1430	0.80	87.0	6.5	2	2.3	0.122	140
Y2-ODP 160L-4	15	20	29.6	1430	0.83	88.0	6.5	2	2.5	0.128	142
Y2-ODP 160LX-4	18.5	25	35.7	1460	0.83	90.0	6.5	2	2.5	0.130	154
Y2-ODP 180M-4	22	30	39.6	1460	0.88	91.2	7.5	2.7	3.2	0.224	206
Y2-ODP 180L-4	30	40	53.7	1460	0.88	91.6	7.5	2.7	3.2	0.266	226
Y2-ODP 200M-4	37	50	67.5	1460	0.86	92.0	6.5	2.1	2.6	0.420	297
Y2-ODP 200L-4	45	60	81.8	1465	0.86	92.3	6.5	2.1	2.6	0.520	311
Y2-ODP 225M-4	55	75	98.6	1470	0.87	92.5	7.2	2.1	2.8	0.610	389
Y2-ODP 250S-4	75	100	132.3	1475	0.88	93.0	7.2	2.2	3	1.140	524
Y2-ODP 250M-4	90	120	156.6	1475	0.89	93.2	7.5	2.2	3	1.330	551
Y2-ODP 280S-4	110	150	190.8	1480	0.89	93.5	7.4	2.1	3.2	1.764	735
Y2-ODP 280M-4	132	180	228.5	1480	0.89	93.7	7	2.1	3	3.212	742
Y2-ODP 315S-4 (A)	160	215	285.7	1480	0.86	94.0	6.2	1.7	2.5	3.074	1030
Y2-ODP 315M-4 (A)	200	270	355.2	1480	0.86	94.5	6.2	1.7	2.5	3.744	1125
Y2-ODP 315LA-4 (A)	250	340	442.6	1480	0.86	94.8	6.2	1.7	2.5	4.481	1225
Y2-ODP 315LB-4 (A)	280	375	494.7	1480	0.86	95.0	6	1.6	2.4	4.861	1265
Y2-ODP 315LX-4 (B)	315	420	549.0	1485	0.87	95.2	6.5	1.8	2.6	5.126	1425
Y2-ODP 315LY-4 (B)	355	475	616.7	1485	0.87	95.5	7	1.9	2.8	6.090	1620
Y2-ODP 315LZA-4 (B)	400	535	694.2	1485	0.87	95.6	6.7	1.6	2.4	6.211	1750
Y2-ODP 315LZB-4 (B)	450	600	779.3	1485	0.87	95.8	6.7	1.6	2.4	6.502	1780
Y2-ODP 355M-4	500	670	864.1	1485	0.87	96.0	6	1.4	2.3	9.170	1790
Y2-ODP 355MX-4	560	750	966.8	1485	0.87	96.1	6	1.4	2.3	10.490	1945
Y2-ODP 355L-4	630	840	1086.5	1485	0.87	96.2	6.5	1.6	2.5	12.080	2095
Y2-ODP 355LX-4	710	950	1223.2	1485	0.87	96.3	6.5	1.6	2.5	14.210	2130

Remarks:

In the actual type, there are no markings (A) and (B) indicated, it is only used for the guidance of the corresponding outline dimensions.

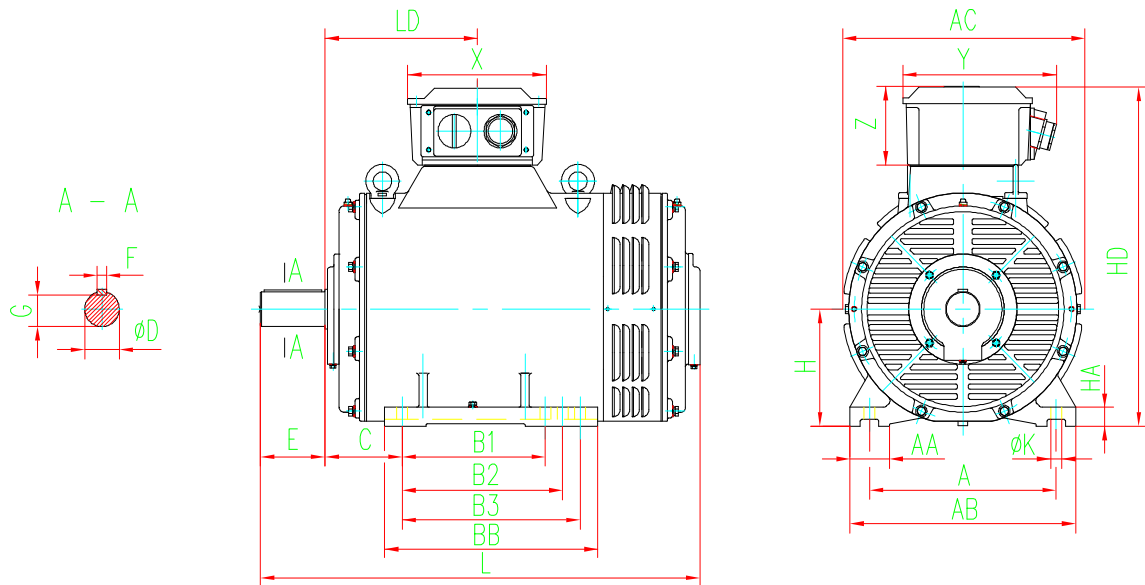
TECHNICAL SPECIFICATIONS (400V 50Hz)

Motor Type	Rated Power		Current	Rated Speed	Power Factor	Efficiency	Locked Current	Locked Torque	Maximum Torque	Moment of inertia	Weight
	KW	HP	(400V) A	r/min	cosφ	η%	Rated Current	Rated Torque	Rated Torque	J kgm ²	kg
Y2-ODP 160LX-6	11	15	23.4	975	0.77	88.0	6	1.8	2.5	0.162	141
Y2-ODP 180M-6	15	20	30.4	975	0.81	88.0	6	2.3	2.8	0.231	198
Y2-ODP 180L-6	18.5	25	36.6	975	0.82	89.0	6	2.3	2.8	0.256	212
Y2-ODP 200M-6	22	30	43.0	980	0.82	90.0	6.5	2.1	2.7	0.342	262
Y2-ODP 200L-6	30	40	58.0	980	0.82	91.0	6.5	2.1	2.7	0.402	279
Y2-ODP 225M-6	37	50	68.7	980	0.85	91.4	6.5	2.1	2.7	0.632	343
Y2-ODP 250S-6	45	60	84.4	985	0.84	91.6	6.5	2.2	2.8	0.834	473
Y2-ODP 250M-6	55	75	102.7	985	0.84	92.0	6.5	2.2	2.8	0.894	490
Y2-ODP 280S-6	75	100	141.8	985	0.83	92.0	6	1.8	2.5	1.421	675
Y2-ODP 280M-6	90	120	169.2	985	0.83	92.5	6	1.8	2.5	1.853	745
Y2-ODP 315S-6 (A)	110	150	212.3	988	0.8	93.5	5.5	1.6	2.4	3.378	925
Y2-ODP 315M-6 (A)	132	180	253.9	988	0.8	93.8	5.5	1.7	2.4	3.961	965
Y2-ODP 315MX-6 (A)	160	215	303.3	988	0.81	94.0	6	1.8	2.5	4.804	1083
Y2-ODP 315LA-6 (A)	180	240	340.5	988	0.81	94.2	6	1.8	2.5	5.187	1127
Y2-ODP 315LB-6 (A)	200	270	372.5	988	0.82	94.5	6	1.8	2.5	5.727	1165
Y2-ODP 315LX-6 (B)	225	300	412.8	988	0.83	94.8	6	1.8	2.5	6.309	1335
Y2-ODP 315LY-6 (B)	250	335	457.6	988	0.83	95.0	6	1.9	2.5	7.022	1371
Y2-ODP 315LZB-6 (B)	280	375	511.5	988	0.83	95.2	6	1.9	2.5	7.888	1462
Y2-ODP 355S-6	315	420	586.8	988	0.82	94.5	5	1.5	1.9	7.910	1620
Y2-ODP 355M-6	355	475	657.8	988	0.82	95.0	5.3	1.6	2	9.330	1730
Y2-ODP 355MX-6	400	535	739.6	988	0.82	95.2	5.5	1.6	2	9.950	1850
Y2-ODP 355L-6	450	600	829.4	988	0.82	95.5	5.5	1.6	2	10.740	1925
Y2-ODP 355LX-6	500	670	918.7	988	0.82	95.8	6	1.7	2.2	12.250	2075
Y2-ODP 180M-8	11	15	24.9	715	0.76	84.0	4.5	1.8	2.5	0.220	185
Y2-ODP 180L-8	15	20	33.3	715	0.77	84.5	4.5	1.9	2.6	0.260	200
Y2-ODP 200M-8	18.5	25	41.0	720	0.77	84.5	5.1	2	2.6	0.340	240
Y2-ODP 200L-8	22	30	48.0	720	0.77	86.0	5.2	2.1	2.8	0.370	260
Y2-ODP 225M-8	30	40	63.9	725	0.77	88.0	5.2	2.1	2.7	0.640	355
Y2-ODP 250S-8	37	50	78.7	730	0.77	88.1	5.5	2.1	2.6	0.850	420
Y2-ODP 250M-8	45	60	95.5	730	0.77	88.3	5.5	2.2	2.7	0.920	440
Y2-ODP 280S-8	55	75	112.5	730	0.78	90.5	5.7	2.1	2.8	1.421	675
Y2-ODP 280M-8	75	100	155.0	730	0.77	90.7	5.9	2.1	2.9	1.853	745
Y2-ODP 315S-8 (A)	90	120	178.7	735	0.79	92.0	5.6	1.5	2.3	3.956	955
Y2-ODP 315M-8 (A)	110	150	214.6	735	0.8	92.5	5.7	1.4	2.3	5.125	1120
Y2-ODP 315MX-8 (A)	132	180	253.5	735	0.81	92.8	5.2	1.6	2.3	5.983	1250
Y2-ODP 315L-8 (B)	160	215	306.6	735	0.81	93.0	5.8	1.6	2.4	6.865	1385
Y2-ODP 315LX-8 (B)	200	270	376.5	735	0.82	93.5	5.3	1.3	2.2	7.895	1420
Y2-ODP 315LY-8 (B)	225	300	422.7	735	0.82	93.7	5.9	1.5	2.5	8.354	1465

Remarks:

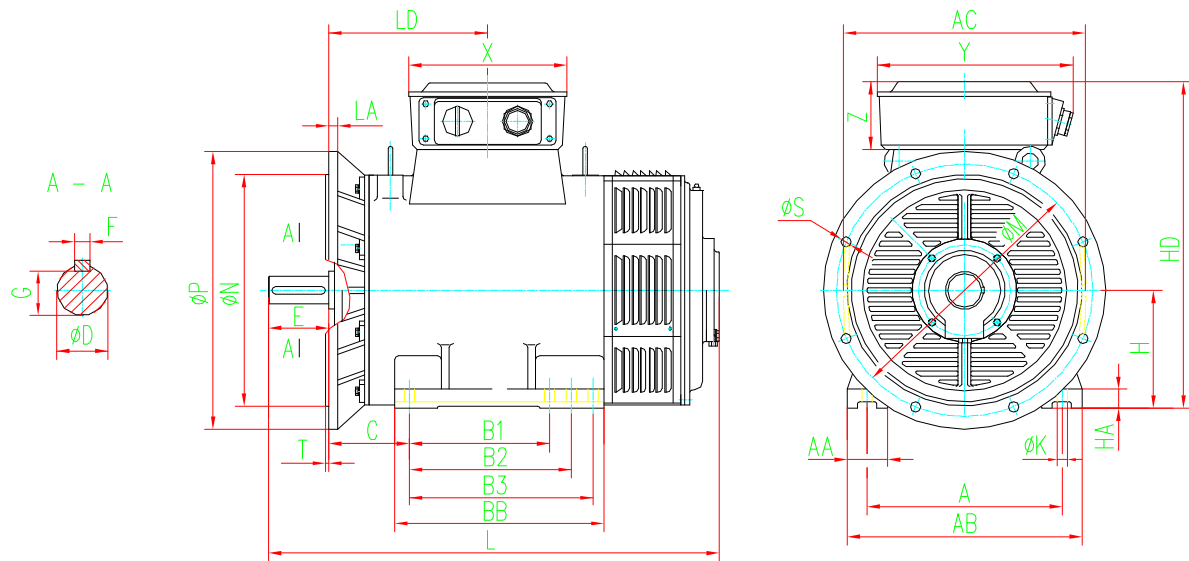
In the actual type, there are no markings (A) and (B) indicated, it is only used for the guidance of the corresponding outline dimensions.

Y2-ODP MOUNTING DIMENSIONS B3



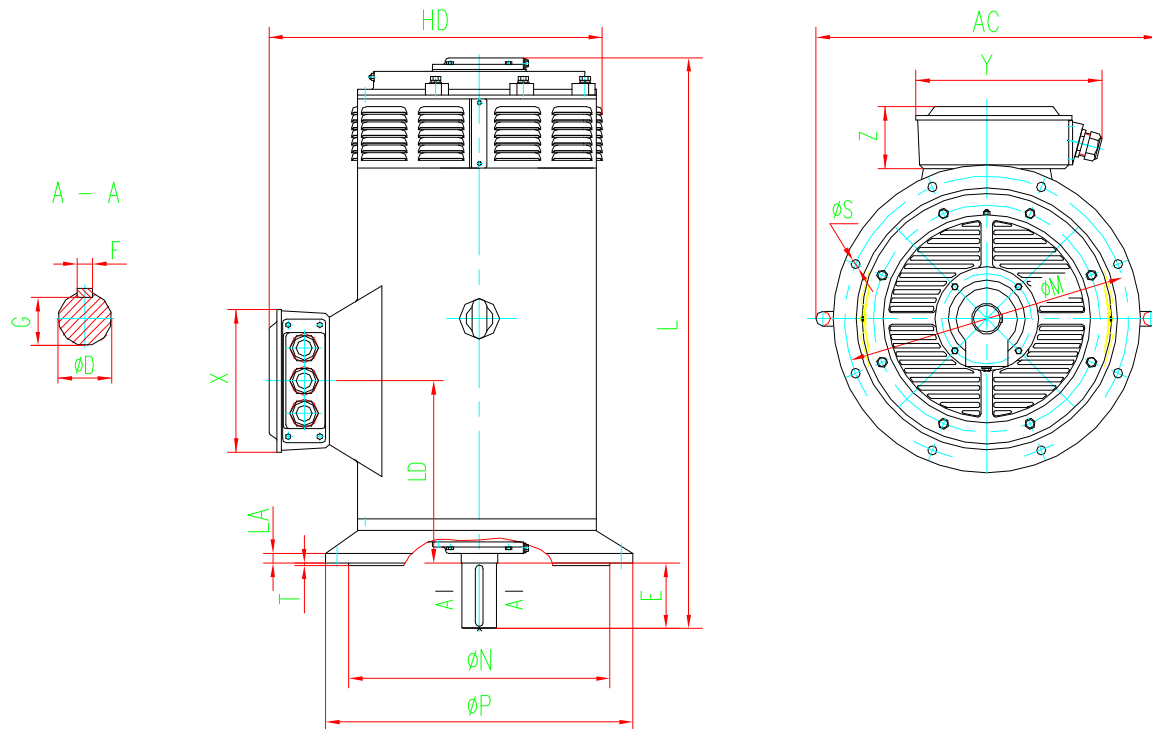
Frame Size	Poles	Mounting Dimensions (mm)												Outline Dimensions (mm)							
		A	B1	B2	B3	C	D	E	F	G	H	K	AB	AC	HD	BB	LD	HA	AA	L	
160M,L	2.4.6.8	254	210	254	/	108	48	110	14	42.5	160	14	294	305	440	306	228	24	45	700	
180M,L	2.4.6.8	279	241	279	/	121	55	110	16	49	180	15	350	355	490	355	279	30	65	750	
200M,L	2.4.6.8	318	267	305	/	133	60	140	18	53	200	19	392	420	550	375	287	25	70	800	
225M	2	356	311	/	/	149	60	140	18	53	225	19	445	450	630	390	318	28	75	890	
225M	4.6.8	356	311	/	/	149	65	140	18	58	225	19	445	450	630	390	318	28	75	890	
250S,M	2	406	311	349	/	168	65	140	18	58	250	24	492	500	730	425	332	30	85	960	
250S,M	4.6.8	406	311	349	/	168	75	140	20	67.5	250	24	492	500	730	425	332	30	85	960	
280S,M	2	457	368	419	/	190	65	140	18	58	280	24	555	550	785	490	370	45	95	1056	
280S,M	4.6.8	457	368	419	/	190	80	170	22	71	280	24	555	550	785	490	370	45	95	1086	
315 (A)	2	508	406	457	508	216	70	140	20	62.5	315	28	620	640	875	615	473	40	112	1260	
315 (A)	4.6.8	508	406	457	508	216	90	170	25	81	315	28	620	640	875	615	473	40	112	1295	
315 (B)	2	508	457	508	560	216	80	140	22	71	315	28	620	640	875	800	473	40	112	1455	
315 (B)	4.6.8	508	457	508	560	216	90	170	25	81	315	28	620	640	875	800	473	40	112	1490	
355M,L	2	610	500	560	630	254	80	170	22	71	355	28	740	735	1050	850	566	50	120	1760	
355M,L	4.6.8	610	500	560	630	254	100	210	28	90	355	28	740	735	1050	850	566	50	120	1800	

Y2-ODP MOUNTING DIMENSIONS B35



Frame Size	Poles	Mounting Dimensions (mm)																Outline Dimensions (mm)							
		A	B1	B2	B3	C	D	E	F	G	H	K	M	N	P	S	T	AB	AC	BB	HD	LA	LD	L	
160M,L	2.4.6.8	254	210	254	/	108	48	110	14	42.5	160	14	300	250	350	4-Φ19	5	294	305	306	440	15	191	700	
180M,L	2.4.6.8	279	241	279	/	121	55	110	16	49	180	15	350	300	400	4-Φ19	5	350	355	335	490	15	279	750	
200M,L	2.4.6.8	318	267	305	/	133	60	140	18	53	200	19	400	350	450	8-Φ19	5	392	420	375	550	16	287	800	
225M	2	356	311	/	/	149	60	140	18	53	225	19	500	450	550	8-Φ19	5	445	450	390	630	18	318	890	
225M	4.6.8	356	311	/	/	149	65	140	18	58	225	19	500	450	550	8-Φ19	5	445	450	390	630	18	318	890	
250S,M	2	406	311	349	/	168	65	140	18	58	250	24	600	550	660	8-Φ24	6	492	500	425	730	22	332	960	
250S,M	4.6.8	406	311	349	/	168	75	140	20	67.5	250	24	600	550	660	8-Φ24	6	492	500	425	730	22	332	960	
280S,M	2	457	368	419	/	190	65	140	18	58	280	24	600	550	660	8-Φ24	6	555	550	490	785	22	370	1056	
280S,M	4.6.8	457	368	419	/	190	80	170	22	71	280	24	600	550	660	8-Φ24	6	555	550	490	785	22	370	1086	
315 (A)	2	508	406	457	508	216	70	140	20	62.5	315	28	740	680	800	8-Φ24	6	620	640	615	875	25	473	1260	
315 (A)	4.6.8	508	406	457	508	216	90	170	25	81	315	28	740	680	800	8-Φ24	6	620	640	615	875	25	473	1295	
315 (B)	2	508	457	508	560	216	80	140	22	71	315	28	740	680	800	8-Φ24	6	620	640	800	875	25	473	1455	
315 (B)	4.6.8	508	457	508	560	216	90	170	25	81	315	28	740	680	800	8-Φ24	6	620	640	800	875	25	473	1490	
355M,L	2	610	500	560	630	254	80	170	22	71	355	28	940	880	1000	8-Φ24	6	740	735	850	1050	28	566	1760	
355M,L	4.6.8	610	500	560	630	254	100	210	28	90	355	28	940	880	1000	8-Φ24	6	740	735	850	1050	28	566	1800	

Y2-ODP MOUNTING DIMENSIONS V1



Frame Size	Poles	Mounting Dimensions (mm)										Outline Dimensions (mm)				
		D	E	F	G	H	M	N	P	S	T	AC	HD	LA	LD	L
160M,L	2.4.6.8	48	110	14	42.5	160	300	250	350	4-Ø 19	5	425	440	15	228	700
180M,L	2.4.6.8	55	110	16	49	180	350	300	400	4-Ø 19	5	488	490	15	279	750
200M,L	2.4.6.8	60	140	18	53	200	400	350	450	8-Ø 19	5	545	560	16	287	800
225M	2	60	140	18	53	225	500	450	550	8-Ø 19	5	615	630	18	318	890
225M	4.6.8	65	140	18	58	225	500	450	550	8-Ø 19	5	615	630	18	318	890
250S,M	2	65	140	18	58	250	600	550	660	8-Ø 24	6	665	730	22	332	960
250S,M	4.6.8	75	140	20	67.5	250	600	550	660	8-Ø 24	6	665	730	22	332	960
280S,M	2	65	140	18	58	280	600	550	660	8-Ø 24	6	740	780	22	370	1056
280S,M	4.6.8	80	170	22	71	280	600	550	660	8-Ø 24	6	740	780	22	370	1086
315 (A)	2	70	140	20	62.5	315	740	680	800	8-Ø 24	6	900	880	25	473	1260
315 (A)	4.6.8	90	170	25	81	315	740	680	800	8-Ø 24	6	900	880	25	473	1295
315 (B)	2	80	140	22	71	315	740	680	800	8-Ø 24	6	900	880	25	473	1455
315 (B)	4.6.8	90	170	25	81	315	740	680	800	8-Ø 24	6	900	880	25	473	1490
355M,L	2	80	170	22	71	355	940	880	1000	8-Ø 24	6	1000	1070	28	566	1760
355M,L	4.6.8	100	210	28	90	355	940	880	1000	8-Ø 24	6	1000	1070	28	566	1800

Y2-ODP TERMINAL BOX

Frame Size	X	Y	Z	Dia. of the thread (mm)
160	200	250	115	2-M50×1.5
180	200	250	115	2-M50×1.5
200	226	280	123	2-M63×1.5
225	226	280	123	2-M63×1.5
250	303	335	166	2-M63×1.5
280	370	470	170	2-M63×1.5
315	370	470	170	3-M63×1.5
355	430	550	250	7-M63×1.5

Y2-ODP BEARINGS

Frame Size	Driving End		Non-driving End	
	2 poles	4.6.8 poles	2 poles	4.6.8 poles
160	6310C3	6310C3	6310C3 (6309C3)	6310C3 (6309C3)
180	6312C3	6312C3	6312C3	6312C3
200	6313C3	6313C3	6313C3	6313C3
225	6314C3	6314C3	6314C3	6314C3
250	6314C3	6317C3	6314C3	6317C3
280	6314C3	6318C3	6314C3	6318C3
315	6317C3	6319C3(NU319)	6317C3/7317B(V1)	6319C3/7319B(V1)
355	6319C3	6322C3(NU322)	6319C3/7319B(V1)	6322C3/7322B(V1)

Y2-ODP NOISE (50Hz)

Power (KW)	Synchronous speed r/min			
	3000	1500	1000	750
	Sound pressure level in dB(A)			
	no load	no load	no load	no load
11	/	66	63	62
15	72	66	63	62
18.5	72	66	63	63
22	72	67	65	63
30	77	67	65	64
37	77	68	67	65
45	81	68	68	65
55	81	70	68	67
75	82	73	70	67
90	83	73	70	68
110	83	74	71	68
132	83	74	71	68
160	84	81	74	68
180	/	/	74	/
200	84	81	75	72
225	/	/	75	72
250	84	82	75	73
280	84	82	76	73
315	85	83	76	73
355	85	83	76	/
400	85	83	76	/
450	85	/	76	/
500	86	84	76	/
560	86	84	/	/
630	86	84	/	/
710	86	84	/	/

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