

Motors for line operation

Air-cooled motors

H-compact 1LA4

Selection and ordering data (continued)

Rated power	High voltage motor H-compact	Speed	Rated current	Efficiency		Power factor		Torque	Break- down torque	Locked -rotor torque	Locked -rotor current	Moment of inertia	
IEC			I_{rated} 6 kV	at 4/4 load	3/4 load	4/4 load	3/4 load		$T_{\text{B}}/$ T_{rated}	$T_{\text{LR}}/$ T_{rated}	$I_{\text{LR}}/$ I_{rated}	Motor	External, max. ¹⁾
kW	Order No.	rpm	A	%	%	cos φ	cos φ	Nm	[-]	[-]	[-]	kgm ²	kgm ²
2.0 ... 6.6 kV, 50 Hz													
4-pole (continued)													
1000	1LA4 454-4AN	1490	118.0	96.2	96.2	0.85	0.83	6409	2.40	1.00	5.5	27.0	653
1200	1LA4 500-4AN	1492	140.0	96.5	96.3	0.85	0.83	7680	2.4	0.90	5.5	33.0	447
1300	1LA4 502-4AN	1492	150.0	96.6	96.4	0.86	0.84	8320	2.4	0.90	5.5	37.0	538
1450	1LA4 504-4AN	1492	166.0	96.7	96.7	0.87	0.86	9280	2.4	0.90	5.5	42.0	628
1700	1LA4 560-4CN	1494	196.0	96.7	96.6	0.86	0.83	10866	2.5	0.60	5.5	79.0	551
1900	1LA4 562-4CN	1494	215.0	96.9	96.8	0.88	0.85	12144	2.5	0.60	5.5	92.0	698
2200	1LA4 564-4CN	1494	250.0	97.2	97.1	0.88	0.86	14061	2.5	0.60	5.5	104.0	761
2400 ²⁾	1LA4 632-4CN	1494	265.0	97.3	97.2	0.89	0.87	15341	2.3	0.55	5.5	157.0	845
2700 ²⁾	1LA4 634-4CN	1495	300.0	97.4	97.3	0.89	0.87	17184	2.3	0.55	5.5	171.0	940
3000 ²⁾	1LA4 636-4CN	1495	335.0	97.5	97.4	0.89	0.87	19164	2.3	0.55	5.5	186.2	1020
6-pole													
236	1LA4 314-6AN	986	29.5	94.1	94.5	0.82	0.78	2286	2.50	1.25	5.3	5.3	375
270	1LA4 316-6AN	985	33.5	94.3	94.8	0.82	0.80	2617	2.40	1.25	5.5	6.4	431
315	1LA4 350-6AN	989	39.0	94.8	95.1	0.82	0.79	3041	2.30	1.10	5.3	10.8	541
365	1LA4 352-6AN	989	44.5	95.1	95.4	0.83	0.80	3524	2.20	1.10	5.3	12.7	667
425	1LA4 354-6AN	990	52.0	95.3	95.5	0.82	0.79	4099	2.40	1.25	5.5	15.0	841
490	1LA4 400-6AN	991	59.0	95.4	95.6	0.84	0.81	4722	2.30	1.05	5.5	21.2	740
570	1LA4 402-6AN	992	68.0	95.7	95.9	0.84	0.81	5487	2.30	1.10	5.5	24.2	1193
630	1LA4 404-6AN	991	77.0	95.8	95.9	0.82	0.80	6071	2.40	1.20	5.5	27.3	1233
700	1LA4 450-6AN	992	84.0	95.8	95.9	0.84	0.81	6738	2.30	1.10	5.4	33.0	1417
800	1LA4 454-6AN	993	94.0	96.0	96.1	0.85	0.82	7693	2.30	1.10	5.4	41.0	1789
1000	1LA4 500-6CN	994	114.0	96.5	96.6	0.87	0.85	9607	2.20	0.75	5.5	82.0	1668
1120	1LA4 502-6CN	994	126.0	96.6	96.7	0.88	0.86	10759	2.20	0.75	5.5	92.0	1858
1250	1LA4 504-6CN	994	142.0	96.8	96.9	0.88	0.86	12008	2.20	0.75	5.5	102.0	2048
1400	1LA4 560-6CN	995	160.0	96.9	96.9	0.87	0.85	13436	2.35	0.65	5.5	138.0	2105
1650	1LA4 562-6CN	995	188.0	97.0	97.1	0.87	0.85	15835	2.35	0.65	5.5	158.0	2470
1850	1LA4 564-6CN	995	210.0	97.1	97.2	0.88	0.86	17754	2.35	0.65	5.5	183.0	2890
2050 ²⁾	1LA4 632-6CN	995	230.0	97.0	96.8	0.89	0.87	19676	2.3	0.50	5.5	269.1	2230
2300 ²⁾	1LA4 634-6CN	995	255.0	97.1	97.0	0.90	0.88	22075	2.3	0.50	5.5	297.4	2450
2500 ²⁾	1LA4 636-6CN	995	275.0	97.2	97.1	0.90	0.88	23995	2.3	0.50	5.5	323.0	2680
8-pole													
215	1LA4 350-8AN	738	27.0	93.8	94.2	0.81	0.78	2782	2.30	1.00	5.1	10.6	826
250	1LA4 352-8AN	739	31.5	94.0	94.4	0.81	0.78	3230	2.40	1.00	5.3	12.5	986
300	1LA4 354-8AN	739	38.0	94.2	94.7	0.81	0.78	3876	2.40	1.10	5.3	14.8	1107
370	1LA4 400-8AN	741	45.5	95.0	95.3	0.82	0.79	4768	2.40	1.05	5.1	21.3	1110

Voltage code:

3 kV, 50 Hz
5 kV, 50 Hz
6 kV, 50 Hz
6.6 kV, 50 Hz
Other voltage

3
5
6
7
9

Type of construction:

IM B3
IM V1 (with canopy)
IM V1 (without canopy)

0
4
8

Note:

Efficiencies according to IEC 60034-2-1:2007; load-dependent supplementary losses determined by statistically evaluated measurements.

¹⁾ Max. permissible external moment of inertia for three starts from cold or two starts from warm under the conditions described on page 2/2.

²⁾ Not available for ≤ 3.3 kV.