

Fact Sheet

# EM-PMI Electric Machines EC-C1200-450 Electric Converter

Protection class: IP65  
 Temperature class: F (150°C)  
 Coolant: plain water with appropriate corrosion inhibitor  
 Rated values for all motors are for 500 VAC terminal voltage



Motor type	Rated power (kW)		Rated torque (Nm)		Peak Torque (Nm)	Rated Speed (Rpm)	Maximum Speed (Rpm)
	coolant temp.		coolant temp.				
	+65°C	+40°C	+65°C	+40°C			
EM-PMI300-T310-1100	41	46	353	399	700	1100	2200
EM-PMI300-T310-1300	48	54	353	398	700	1300	2600
EM-PMI300-T310-1600	59	65	351	389	700	1600	3200
EM-PMI300-T310-2200	79	90	345	390	700	2200	4000 / 4400***
EM-PMI300-T310-2800	91	108	312	369	700	2800	4000 / 5600***
EM-PMI300-T310-3200	94	105	279	314	700	3200	4000 / 6000***
EM-PMI375-T200-600	12	13	190	210	500	600	1200
EM-PMI375-T200-1000	21	22	197	213	500	1000	2000
EM-PMI375-T200-1400	27	31	186	209	500	1400	2800
EM-PMI375-T200-1900	37	40	184	203	500	1900	3800
EM-PMI375-T200-2600	46	56	170	205	500	2600	4000
EM-PMI375-T500-1100	61	66	526	573	1490	1100	4000
EM-PMI375-T500-1300	71	78	520	575	1480	1300	4000
EM-PMI375-T500-1600	86	96	515	575	1450	1600	4000
EM-PMI375-T500-1800	96	106	511	560	1400	1800	1800
EM-PMI375-T500-2000	105	115	502	550	1200	2000	2600
EM-PMI375-T500-2300	120	125	497	543	1450*	2300	3200
EM-PMI375-T500-2700	133	150	472	530	1194*	2700	3800
EM-PMI375-T500-3200	148	162	442	484	1038*	3200	4000
EM-PMI375-T800-900	78	86	823	910	2280	900	1800
EM-PMI375-T800-1300	113	122	828	895	2100*	1300	2600
EM-PMI375-T800-1600	139	151	828	902	2100*	1600	3200
EM-PMI375-T800-1900	153	170	771	854	2100*	1900	3800
EM-PMI375-T800-2300	174	192	723	797	2040*	2300	4000
EM-PMI375-T800-2800	195	215	665	733	1700*	2800	4000
EM-PMI375-T800-3200	208	229	622	683	1450*	3200	4000
EM-PMI375-T800-3800	227	250	570	628	1230*	3800	4000
EM-PMI375-T1100-1200	164	176	1306	1399	3270*	1200	2400
EM-PMI375-T1100-1500	185	206	1175	1310	2500*	1500	3000
EM-PMI375-T1100-1800	203	231	1077	1225	2500*	1800	3600
EM-PMI375-T1100-2100	219	259	995	1178	2170*	2100	4000
EM-PMI375-T1100-2400	239	266	952	1060	2000*	2400	4000
EM-PMI375-T1100-2900	272	303	896	998	1500*	2900	4000
EM-PMI540-T1500-700	119	133	1619	1810	2600	700	1400
EM-PMI540-T1500-1200	199	216	1580	1716	2600*	1200	2400
EM-PMI540-T1500-1400	228	253	1553	1723	2600*	1400	2800
EM-PMI540-T1500-1600	243	278	1452	1662	2600*	1600	3200

\*\*\*With the standard bearings 4000 rpm, higher speeds are possible with grease lubricated bearings (BHS)  
 \*\*QUAD peak torque achieved with 4 EC-C inverters  
 \*DUAL peak torque achieved with 2 EC-C inverters

Motor type	Rated power (kW) coolant temp.		Rated torque (Nm) coolant temp.		Peak Torque (Nm)	Rated Speed (Rpm)	Maximum Speed (Rpm)
	+65°C	+40°C	+65°C	+40°C			
	EM-PMI540-T1500-1800	274	303	1455			
EM-PMI540-T1500-2100	304	339	1381	1542	2500*	2100	4000
EM-PMI540-T1500-2400	332	380	1322	1510	2135*	2400	4000
EM-PMI540-T2000-700	180	199	2462	2716	3700*	700	1400
EM-PMI540-T2000-1300	313	325	2303	2386	3700*	1300	2600
EM-PMI540-T2000-1700	358	405	2009	2276	2800*	1700	3400
EM-PMI540-T2000-2100	422	473	1919	2153	2300*	2100	4000
EM-PMI540-T3000-1300	395	461	2900	3383	5940**	1300	2600
EM-PMI540-T3000-1500	419	470	2669	2991	4560**	1500	3200
EM-PMI540-T3000-2000	481	583	2297	2784	4340**	2000	4000
EM-PMI540-T3000-2400	480	619	1900	2460	4050**	2400	4000
EM-PMI540-T4000-1200	531	590	4229	4692	5930**	1200	2400
EM-PMI540-T4000-1600	701	777	4183	4639	5930**	1600	3200
EM-PMI540-T4000-2400	896	1022	3565	4067	4000**	2400	4000

\*\*\*With the standard bearings 4000 rpm, higher speeds are possible with grease lubricated bearings (BHS)

\*\*QUAD peak torque achieved with 4 EC-C inverters

\*DUAL peak torque achieved with 2 EC-C inverters

Protection class: IP65

Temperature class: H (180°C)

Coolant: plain water with appropriate corrosion inhibitor

Rated values for all motors are for 500 VAC terminal voltage

Motor type	Rated power (kW) coolant temp.		Rated torque (Nm) coolant temp.		Peak Torque (Nm)	Rated Speed (Rpm)	Maximum Speed (Rpm)
	+65°C	+40°C	+65°C	+40°C			
	EM-PMI375-T200-600	13	14	209			
EM-PMI375-T200-1000	22	25	213	243	500	1000	2000
EM-PMI375-T200-1400	31	34	209	231	500	1400	2800
EM-PMI375-T200-1900	41	43	208	214	500	1900	3800
EM-PMI375-T200-2600	52	58	191	212	500	2600	4000
EM-PMI375-T500-1100	66	71	572	617	1490	1100	4000
EM-PMI375-T500-1300	76	83	560	607	1480	1300	4000
EM-PMI375-T500-1600	93	193	558	615	1450	1600	4000
EM-PMI375-T500-1800	104	116	552	616	1400	1800	1800
EM-PMI375-T500-2000	115	125	550	596	1200	2000	2600
EM-PMI375-T500-2300	130	139	538	578	1450*	2300	3200
EM-PMI375-T500-2700	148	165	524	585	1194*	2700	3800
EM-PMI375-T500-3200	158	181	473	539	1038*	3200	4000
EM-PMI375-T800-900	85	94	900	1000	2280	900	1800
EM-PMI375-T800-1300	125	134	917	984	2100*	1300	2600
EM-PMI375-T800-1600	154	167	921	997	2100*	1600	3200
EM-PMI375-T800-1900	171	187	860	938	2100*	1900	3800
EM-PMI375-T800-2300	191	212	796	880	2040*	2300	4000
EM-PMI375-T800-2800	217	238	740	813	1700*	2800	4000
EM-PMI375-T800-3200	229	251	683	749	1450*	3200	4000
EM-PMI375-T800-3800	251	277	630	697	1230*	3800	4000
EM-PMI375-T1100-1200	177	190	1410	1515	3270*	1200	2400
EM-PMI375-T1100-1500	206	228	1310	1455	2500*	1500	3000
EM-PMI375-T1100-1800	224	252	1187	1338	2500*	1800	3600
EM-PMI375-T1100-2100	235	286	1070	1300	2170*	2100	4000
EM-PMI375-T1100-2400	260	290	1036	1155	2000*	2400	4000
EM-PMI375-T1100-2900	296	333	976	1098	1500*	2900	4000

\*\*\*With the standard bearings 4000 rpm, higher speeds are possible with grease lubricated bearings (BHS)

\*\*QUAD peak torque achieved with 4 EC-C inverters

\*DUAL peak torque achieved with 2 EC-C inverters

# EC-C1200-400 Electric Converter

Protection class: IP67  
 Operation temperature: -40...105°C  
 Coolant: plain water with appropriate corrosive inhibitor  
 Dimensions: (weight, length, depth, height) 15 kg, 482 x 244 x 109 mm  
 DC voltage range: 0-850VDC  
 Nominal DC voltage: 750VDC  
 AC voltage range: 0-560VAC



Type example	Nominal power, kW	AC current, A <sub>RMS</sub>
EC-C1200-450-L+MC120+AFE120+UG120	100	120
EC-C1200-450-L+MC180+AFE180+UG180	150	180
EC-C1200-450-L+MC240+AFE240+UG240	200	240
EC-C1200-450-L+MC350+AFE350+UG300	250	300
EC-C1200-450-L+MC350+AFE350+UG350	300*	350*

\*Coolant temperature: +40°C

Type example	Nominal power, kW**	Nominal current, A <sub>DC</sub>
EC-C1200-450-L+DC150	90	120
EC-C1200-450-L+DC250	150	180
EC-C1200-450-L+DC300	180	240
EC-C1200-450-L+DC400	240	300

\*\*LV-side voltage 600 VDC, HV-side voltage: 750 VDC  
 +DC option needs EC-LTS1200-400 unit, see below

# EC-LTS1200-400

Protection class: IP65  
 Operation temperature: -40...85°C  
 Coolant: plain water with appropriate corrosive inhibitor  
 Coolant temperature: 65°C  
 Dimensions: (weight, length, depth, height) 58 kg, 665 x 200 x 308 mm

