

ELPROM MOTORI designs and manufactures electric motors & equipment for safe and reliable solutions.

Industrial Electric Motor for Hazardous areas

Explosive Atmospheres
Increased Safety
Non Sparking

ATEX CE UL CEMEP

for further details or information, please contact:

elprom

www.elprommotori.com

Equipments designed for potentially explosive atmospheres

EW E-W ELECTRIC MOTOR FOR HAZARDOUS AREAS
EXPLOSION PROOF MOTORS

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3. GUIDE TO MOTOR CHOICE

First step in the classification of hazardous areas is to identify the explosive atmosphere and its classification. The end user must clearly identify the hazardous area under his own responsibility. Directive 1994/9/EC provides information regarding classification of areas where explosive atmosphere may occur. The corresponding standards of reference are EN 60079-10 and EN 61141-10 for dust.

Here below are the synthetic symbols which indicate the motor. We will highlight all the characteristics of our motors.

GROUP I: Complete equipment ready for use in other places likely to become endangered by explosive atmosphere (see table 1)

GROUP II: sub-divided into 3 categories:

CATEGORY I: Very high level of protection
CATEGORY II: High level of protection
CATEGORY III: Normal level of protection

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EW E-W ELECTRIC MOTOR FOR HAZARDOUS AREAS
EXPLOSION PROOF MOTORS

3.1.1 Motor for Zones 1 & 2

Explosion protection is provided by the motor's design and construction. The motor is designed to be used in hazardous areas where explosive atmosphere is present. The motor is designed to be used in hazardous areas where explosive atmosphere is present. The motor is designed to be used in hazardous areas where explosive atmosphere is present.

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EXPLOSION PROOF MOTORS

6. MECHANICAL CHARACTERISTICS

6.1 Mounting Arrangements

6.2 Main Components

6.3 Bearings & Seals

6.4 Electrical Data for EW Series Motor

6.5 Overall Dimensions

6.6 Spare Parts Overhauls & Repairs

6.7 Personal Qualification

6.8 Standards of Reference

Exe ELECTRIC MOTOR FOR HAZARDOUS AREAS
EXPLOSION PROOF MOTORS

7. ELECTRICAL DATA FOR EW SERIES MOTOR

Motor for ATEX Zone 1 Execution: II 2 G Ex nA IIC T3 Gc / IEC Ex / ATEX

3000 PHASE MOTOR 1 SPEED (3000-4200, 50/60 Hz)

Type	Output (kW)	Rated Current (A)	Rated Voltage (V)	Rated Speed (rpm)	Rated Torque (Nm)	Max. Torque (Nm)	Weight (kg)
EW3000-01	0.18	0.53	0.38	3000	0.60	0.84	2.2
EW3000-02	0.25	0.74	0.53	3000	0.84	1.12	2.5
EW3000-03	0.37	1.06	0.76	3000	1.20	1.60	3.0
EW3000-04	0.55	1.59	1.13	3000	1.73	2.28	3.5
EW3000-05	0.75	2.18	1.56	3000	2.40	3.20	4.0
EW3000-06	1.10	3.15	2.25	3000	3.50	4.60	4.5
EW3000-07	1.50	4.35	3.15	3000	4.80	6.40	5.0
EW3000-08	2.20	6.30	4.50	3000	7.00	9.30	5.5
EW3000-09	3.00	8.70	6.30	3000	9.60	12.80	6.0
EW3000-10	4.00	11.60	8.40	3000	12.80	17.10	6.5
EW3000-11	5.50	16.00	11.60	3000	17.30	23.10	7.0
EW3000-12	7.50	21.90	15.90	3000	23.90	31.90	7.5
EW3000-13	10.00	29.40	21.30	3000	31.90	42.60	8.0
EW3000-14	15.00	43.50	31.50	3000	47.80	64.00	8.5
EW3000-15	20.00	58.80	42.60	3000	64.00	85.30	9.0
EW3000-16	27.00	78.30	57.00	3000	85.30	112.80	9.5
EW3000-17	37.00	106.50	77.10	3000	112.80	151.20	10.0
EW3000-18	50.00	144.00	103.50	3000	151.20	201.60	10.5
EW3000-19	67.00	193.50	140.25	3000	201.60	271.80	11.0
EW3000-20	90.00	259.50	189.00	3000	271.80	360.00	11.5
EW3000-21	120.00	351.00	256.50	3000	360.00	480.00	12.0
EW3000-22	160.00	471.00	346.50	3000	480.00	640.00	12.5
EW3000-23	220.00	640.50	471.00	3000	640.00	853.00	13.0
EW3000-24	300.00	870.00	630.00	3000	853.00	1128.00	13.5
EW3000-25	400.00	1161.00	840.00	3000	1128.00	1512.00	14.0
EW3000-26	550.00	1597.50	1155.00	3000	1512.00	2016.00	14.5
EW3000-27	750.00	2182.50	1597.50	3000	2016.00	2718.00	15.0
EW3000-28	1000.00	2940.00	2130.00	3000	2718.00	3600.00	15.5
EW3000-29	1350.00	3964.50	2896.50	3000	3600.00	4800.00	16.0
EW3000-30	1800.00	5292.00	3888.00	3000	4800.00	6400.00	16.5
EW3000-31	2400.00	7164.00	5214.00	3000	6400.00	8530.00	17.0
EW3000-32	3300.00	9765.00	7084.50	3000	8530.00	11280.00	17.5
EW3000-33	4500.00	13267.50	9712.50	3000	11280.00	15120.00	18.0
EW3000-34	6000.00	17820.00	13020.00	3000	15120.00	20160.00	18.5
EW3000-35	8100.00	24052.50	17715.00	3000	20160.00	27180.00	19.0
EW3000-36	11000.00	32472.00	23880.00	3000	27180.00	36000.00	19.5
EW3000-37	15000.00	44100.00	32025.00	3000	36000.00	48000.00	20.0
EW3000-38	20000.00	58800.00	42840.00	3000	48000.00	64000.00	20.5
EW3000-39	27000.00	79920.00	58110.00	3000	64000.00	85300.00	21.0
EW3000-40	36000.00	107640.00	78120.00	3000	85300.00	112800.00	21.5
EW3000-41	48000.00	144000.00	103500.00	3000	112800.00	151200.00	22.0
EW3000-42	64000.00	193200.00	138600.00	3000	151200.00	201600.00	22.5
EW3000-43	87000.00	256800.00	187800.00	3000	201600.00	271800.00	23.0
EW3000-44	117000.00	343200.00	250800.00	3000	271800.00	360000.00	23.5
EW3000-45	156000.00	459600.00	334800.00	3000	360000.00	480000.00	24.0
EW3000-46	210000.00	619200.00	451800.00	3000	480000.00	640000.00	24.5
EW3000-47	285000.00	831600.00	605700.00	3000	640000.00	853000.00	25.0
EW3000-48	380000.00	1119600.00	811800.00	3000	853000.00	1128000.00	25.5
EW3000-49	510000.00	1502400.00	1082400.00	3000	1128000.00	1512000.00	26.0
EW3000-50	680000.00	1996800.00	1443600.00	3000	1512000.00	2016000.00	26.5
EW3000-51	900000.00	2697600.00	1938000.00	3000	2016000.00	2718000.00	27.0
EW3000-52	1200000.00	3633600.00	2584800.00	3000	2718000.00	3600000.00	27.5
EW3000-53	1600000.00	4848000.00	3446400.00	3000	3600000.00	4800000.00	28.0
EW3000-54	2100000.00	6480000.00	4626000.00	3000	4800000.00	6400000.00	28.5
EW3000-55	2850000.00	8736000.00	6204000.00	3000	6400000.00	8530000.00	29.0
EW3000-56	3800000.00	11616000.00	8274000.00	3000	8530000.00	11280000.00	29.5
EW3000-57	5100000.00	15552000.00	11058000.00	3000	11280000.00	15120000.00	30.0
EW3000-58	6800000.00	20736000.00	14748000.00	3000	15120000.00	20160000.00	30.5
EW3000-59	9000000.00	27720000.00	19662000.00	3000	20160000.00	27180000.00	31.0
EW3000-60	12000000.00	36960000.00	26208000.00	3000	27180000.00	36000000.00	31.5
EW3000-61	16000000.00	49440000.00	34944000.00	3000	36000000.00	48000000.00	32.0
EW3000-62	21000000.00	66240000.00	46680000.00	3000	48000000.00	64000000.00	32.5
EW3000-63	28500000.00	88560000.00	62520000.00	3000	64000000.00	85300000.00	33.0
EW3000-64	38000000.00	117360000.00	83160000.00	3000	85300000.00	112800000.00	33.5
EW3000-65	51000000.00	157440000.00	111240000.00	3000	112800000.00	151200000.00	34.0
EW3000-66	68000000.00	209280000.00	148320000.00	3000	151200000.00	201600000.00	34.5
EW3000-67	90000000.00	280320000.00	198720000.00	3000	201600000.00	271800000.00	35.0
EW3000-68	120000000.00	373440000.00	265440000.00	3000	271800000.00	360000000.00	35.5
EW3000-69	160000000.00	500160000.00	353760000.00	3000	360000000.00	480000000.00	36.0
EW3000-70	210000000.00	663360000.00	471120000.00	3000	480000000.00	640000000.00	36.5
EW3000-71	285000000.00	888960000.00	634800000.00	3000	640000000.00	853000000.00	37.0
EW3000-72	380000000.00	1176960000.00	843600000.00	3000	853000000.00	1128000000.00	37.5
EW3000-73	510000000.00	1588800000.00	1128000000.00	3000	1128000000.00	1512000000.00	38.0
EW3000-74	680000000.00	2116800000.00	1502400000.00	3000	1512000000.00	2016000000.00	38.5
EW3000-75	900000000.00	28368					