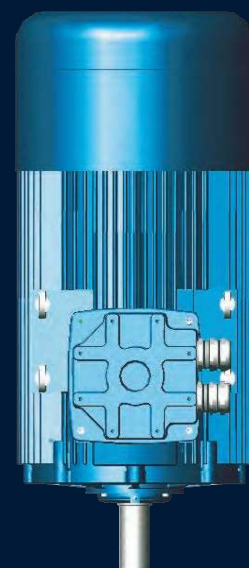
Flameproof Motors



63 ÷ 315

II 2G, II 2GD

Ex d, Ex de • IIB, IIC • tD • IP65 (A21)

cemp

Flameproof
Motors

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ABG Group

Combustion temperatures of gases, vapours and groups

Classification of the more common combustible gases and vapours according to temperature class and group

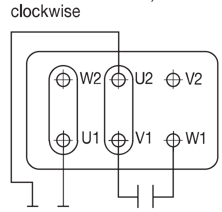
Group	Temperature classes					
	T 1	T 2	T 3	T 4	T 5	T 6
I	Methane (firedamp)					
IIA	Acetic acid Acetone Ammonia Benzole Benzene Butanone Carbon monoxide Ethane Ethyl acetate Ethyl Chloride Methane Methanol Methyl acetate Methyl alcohol Methyl Chloride Naphtalene Propane Toluene Xylene	Acetic anhydride I amyl acetate n butane n butyl alcohol Amylic alcohol Butyl acetate Cyclohexanon Ethyl alcohol Iso butylic alcohol Liquefied gas Natural gas Propyl acetate	Cyclohexane Cyclohexanol Decane Diesel fuels Gasoline Heating oil Heptane Hexane Jet fuels Pentane Petroleum*	Acetaldehyde Ether		
IIB	Coke-oven gas Water gas (carburetted)	1,3- butadiene Ethylene Ethylbenzene Ethylene oxide	Hydrogen sulphide Isoprene Petroleum*	Ethyl ether		
IIC	Hydrogen	Acetylene				Carbon disulphide Ethyl nitrate

Cable-entries

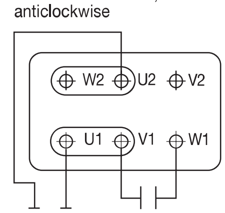
Mains connection cable entries				
Frame size	Mains power supply	Power supply from an inverter	Conical threading upon request*	
			ANSI B 2.1	UNI 6125
63 ÷ 112	1 x M25	1 x M25 + 1 x M20	NPT 3/4"	Gk 3/4"
132 ÷ 160	2 x M32	1 x M32 + 1 x M20	NPT 1"	Gk 1"
180 ÷ 250	2 x M40	1 x M40 + 1 x M20	NPT 1.1/2"	Gk 1.1/2"
280 ÷ 315	2 x M63	1 x M63 + 1 x M20	NPT 2"	Gk 2"
Auxiliaries cable entries				
63 ÷ 315	----	1 x M20	NPT 1/2"	Gk 1/2"

Single phase motors

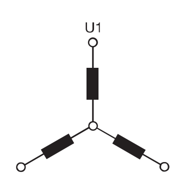
Direction of rotation, clockwise



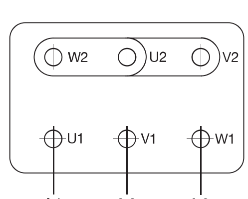
Direction of rotation, anticlockwise

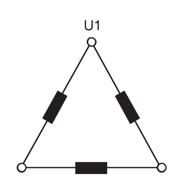


Three-phase motors

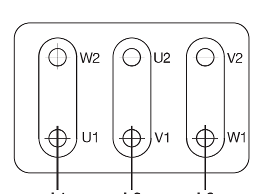


Y-Connection





Δ-Connection



Number of pole: 2, 4, 6, 8 ......
Synchronous speed at 50 Hz: 3000, 1500, 1000, 750 .....

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Three-phase motors II 2G II 2GD Speed Rated data at **230 V 50 Hz** direct on line start

3000 rpm
1500 rpm
1000 rpm

Motor type				Rated output	Speed	Current	Efficiency	Power factor	Torque	Starting current	Starting torque	Capacitor	Sound pressure		Moment of inertia	Mass	CESI Certificates				Class T
IIB		IIC		P_n	n	I_n ◗	η	cos φ	M_n	I_a/I_n	M_a/M_n	C	[dB(A)]		J ▼	m	IIB		IIC		◆
Ex d	Ex de	Ex d	Ex de	[kW]	[1/min]	[A]	[%]		[Nm]			[µF]	Lw	Lp	[kgm²]	[kg]	standard	★	standard	★	
AB10 63 A 2	AB15 63 A 2	**AC10 63 A 2**	AC15 63 A 2	0.10	2750	1.30	35	0.95	0.3	3.3	0.6	6.3	60	52	0.0001	16	01 ATEX 102	02 ATEX 044X	01 ATEX 103	02 ATEX 045X	4
AB10 63 B 2	AB15 63 B 2	**AC10 63 B 2**	AC15 63 B 2	0.15	2750	1.30	53	0.95	0.5	3.8	0.6	8.0	60	52	0.0001	16	01 ATEX 102	02 ATEX 044X	01 ATEX 103	02 ATEX 045X	4
AB10 71 A 2	AB15 71 A 2	**AC10 71 A 2**	AC15 71 A 2	0.20	2800	2.60	48	0.92	0.7	3.6	0.7	10.0	66	58	0.0004	19	01 ATEX 102	02 ATEX 044X	01 ATEX 103	02 ATEX 045X	4
AB10 71 B 2	AB15 71 B 2	**AC10 71 B 2**	AC15 71 B 2	0.40	2730	2.90	63	0.95	1.4	2.7	0.7	12.5	66	58	0.0004	19	01 ATEX 102	02 ATEX 044X	01 ATEX 103	02 ATEX 045X	4
AB10 80 A 2	AB15 80 A 2	**AC10 80 A 2**	AC15 80 A 2	0.55	2720	5.40	53	0.82	1.9	2.5	0.6	16.0	70	62	0.0006	26	01 ATEX 102	02 ATEX 044X	01 ATEX 103	02 ATEX 045X	4
AB10 80 B 2	AB15 80 B 2	**AC10 80 B 2**	AC15 80 B 2	0.75	2790	5.30	63	0.97	2.6	4.5	0.8	20.0	70	62	0.0008	26	01 ATEX 102	02 ATEX 044X	01 ATEX 103	02 ATEX 045X	4
AB10 90 S 2	AB15 90 S 2	**AC10 90 S 2**	AC15 90 S 2	1.10	2750	7.80	63	0.97	3.8	4.4	0.7	45.0	77	69	0.0012	33	01 ATEX 102	02 ATEX 044X	01 ATEX 103	02 ATEX 045X	4
AB10 90 L 2	AB15 90 L 2	**AC10 90 L 2**	AC15 90 L 2	1.50	2800	8.90	74	0.98	5.1	4.9	0.7	60.0	77	69	0.0015	33	01 ATEX 102	02 ATEX 044X	01 ATEX 103	02 ATEX 045X	4
AB10 100 LA 2	AB15 100 LA 2	**AC10 100 LA 2**	AC15 100 LA 2	2.20	2800	15.50	65	0.95	7.5	5.0	0.6	60.0	80	72	0.0029	46	01 ATEX 102	02 ATEX 044X	01 ATEX 103	02 ATEX 045X	4
AB10 100 LB 2	AB15 100 LB 2	**AC10 100 LB 2**	AC15 100 LB 2	3.00	2800	18.00	74	0.98	10.2	5.0	0.6	80.0	80	72	0.0036	46	01 ATEX 102	02 ATEX 044X	01 ATEX 103	02 ATEX 045X	4
AB10 63 A 4	AB15 63 A 4	**AC10 63 A 4**	AC15 63 A 4	0.09	1360	1.10	39	0.90	0.6	3.2	0.6	6.3	52	44	0.0002	16	01 ATEX 102	02 ATEX 044X	01 ATEX 103	02 ATEX 045X	4
AB10 63 B 4	AB15 63 B 4	**AC10 63 B 4**	AC15 63 B 4	0.13	1350	1.30	55	0.90	1.1	3.0	0.6	8.0	52	44	0.0002	16	01 ATEX 102	02 ATEX 044X	01 ATEX 103	02 ATEX 045X	4
AB10 71 A 4	AB15 71 A 4	**AC10 71 A 4**	AC15 71 A 4	0.15	1380	1.70	42	0.90	1.0	3.2	0.7	10.0	56	48	0.0006	19	01 ATEX 102	02 ATEX 044X	01 ATEX 103	02 ATEX 045X	4
AB10 71 B 4	AB15 71 B 4	**AC10 71 B 4**	AC15 71 B 4	0.25	1380	2.30	48	0.97	1.7	3.4	0.7	12.5	56	48	0.0009	19	01 ATEX 102	02 ATEX 044X	01 ATEX 103	02 ATEX 045X	4
AB10 80 A 4	AB15 80 A 4	**AC10 80 A 4**	AC15 80 A 4	0.35	1410	3.30	49	0.96	2.4	3.8	0.7	20.0	59	51	0.0009	26	01 ATEX 102	02 ATEX 044X	01 ATEX 103	02 ATEX 045X	4
AB10 80 B 4	AB15 80 B 4	**AC10 80 B 4**	AC15 80 B 4	0.45	1420	4.30	53	0.85	3.0	3.8	0.8	25.0	59	51	0.0013	26	01 ATEX 102	02 ATEX 044X	01 ATEX 103	02 ATEX 045X	4
AB10 80 L 4	AB15 80 L 4	**AC10 80 L 4**	AC15 80 L 4	0.55	1420	4.90	56	0.87	3.7	3.9	0.7	30.0	59	51	0.0014	26	01 ATEX 102	02 ATEX 044X	01 ATEX 103	02 ATEX 045X	4
AB10 90 S 4	AB15 90 S 4	**AC10 90 S 4**	AC15 90 S 4	0.75	1420	5.90	56	0.97	5.2	2.1	1.0	30.0	62	54	0.0020	33	01 ATEX 102	02 ATEX 044X	01 ATEX 103	02 ATEX 045X	4
AB10 90 L 4	AB15 90 L 4	**AC10 90 L 4**	AC15 90 L 4	1.10	1430	7.20	73	0.91	7.3	4.0	0.6	35.0	62	54	0.0026	33	01 ATEX 102	02 ATEX 044X	01 ATEX 103	02 ATEX 045X	4
AB10 100 LA 4	AB15 100 LA 4	**AC10 100 LA 4**	AC15 100 LA 4	1.30	1370	8.10	72	0.98	9.0	3.2	0.5	35.0	63	55	0.0043	46	01 ATEX 102	02 ATEX 044X	01 ATEX 103	02 ATEX 045X	4
AB10 100 LB 4	AB15 100 LB 4	**AC10 100 LB 4**	AC15 100 LB 4	1.60	1400	10.00	71	0.98	11.1	2.6	0.5	40.0	63	55	0.0053	46	01 ATEX 102	02 ATEX 044X	01 ATEX 103	02 ATEX 045X	4
AB10 71 A 6	AB15 71 A 6	**AC10 71 A 6**	AC15 71 A 6	0.10	900	1.50	36	0.80	1.1	2.6	0.5	8.0	50	42	0.0007	19	01 ATEX 102	02 ATEX 044X	01 ATEX 103	02 ATEX 045X	4
AB10 71 B 6	AB15 71 B 6	**AC10 71 B 6**	AC15 71 B 6	0.15	850	1.40	50	0.93	1.7	2.8	0.5	10.0	50	42	0.0010	19	01 ATEX 102	02 ATEX 044X	01 ATEX 103	02 ATEX 045X	4
AB10 80 A 6	AB15 80 A 6	**AC10 80 A 6**	AC15 80 A 6	0.20	910	2.70	40	0.81	2.1	2.9	0.6	16.0	53	45	0.0022	26	01 ATEX 102	02 ATEX 044X	01 ATEX 103	02 ATEX 045X	4
AB10 80 B 6	AB15 80 B 6	**AC10 80 B 6**	AC15 80 B 6	0.30	930	3.00	53	0.82	3.1	3.0	0.6	25.0	53	45	0.0027	26	01 ATEX 102	02 ATEX 044X	01 ATEX 103	02 ATEX 045X	4
AB10 90 S 6	AB15 90 S 6	**AC10 90 S 6**	AC15 90 S 6	0.55	920	4.30	63	0.88	5.7	3.0	0.6	30.0	54	46	0.0034	33	01 ATEX 102	02 ATEX 044X	01 ATEX 103	02 ATEX 045X	4
AB10 90 L 6	AB15 90 L 6	**AC10 90 L 6**	AC15 90 L 6	0.75	910	6.10	60	0.88	7.9	3.1	0.7	35.0	54	46	0.0049	33	01 ATEX 102	02 ATEX 044X	01 ATEX 103	02 ATEX 045X	4
AB10 100 LB 6	AB15 100 LB 6	**AC10 100 LB 6**	AC15 100 LB 6	1.10	920	8.00	65	0.92	11.4	3.2	0.7	75.0	63	55	0.0088	46	01 ATEX 102	02 ATEX 044X	01 ATEX 103	02 ATEX 045X	4

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Three-phase motors II 2G II 2GD Speed Rated data at **400 V 50 Hz** direct on line start **3000** rpm

Motor type IIB Ex d	Motor type IIB Ex de	Motor type IIC Ex d	Motor type IIC Ex de	Rated output P_n [kW]	Speed n [1/min]	Current I_n ◗ [A]	Efficiency η [%]	Power factor cos φ	Torque M_n [Nm]	Starting current I_a/I_n	Starting torque M_a/M_n	Maximum torque M_m/M_n	Noise level [dB(A)] Lw	Noise level [dB(A)] Lp	Moment of J ▼ [kgm²]	Mass m [kg]	CESI Certificates IIB standard	CESI Certificates IIB ★	CESI Certificates IIC standard	CESI Certificates IIC ★	Class T ◆
AB30 63 A 2	AB35 63 A 2	**AC30 63 A 2**	AC35 63 A 2	0.18	2857	0.75	63.00	0.57	0.63	4.4	3.6	3.8	60	52	0.0001	16	01 ATEX 102	02 ATEX 044X	01 ATEX 103	02 ATEX 045X	4
AB30 63 B 2	AB35 63 B 2	**AC30 63 B 2**	AC35 63 B 2	0.25	2805	0.85	66.00	0.66	0.85	3.9	3.5	3.7	60	52	0.0001	16	01 ATEX 102	02 ATEX 044X	01 ATEX 103	02 ATEX 045X	4
AB30 71 A 2	AB35 71 A 2	**AC30 71 A 2**	AC35 71 A 2	0.37	2800	1.10	62.00	0.77	1.26	3.6	2.4	2.6	66	58	0.0004	19	01 ATEX 102	02 ATEX 044X	01 ATEX 103	02 ATEX 045X	4
AB30 71 B 2	AB35 71 B 2	**AC30 71 B 2**	AC35 71 B 2	0.55	2830	1.40	71.00	0.79	1.85	4.3	2.5	2.7	66	58	0.0004	19	01 ATEX 102	02 ATEX 044X	01 ATEX 103	02 ATEX 045X	4
AB30 80 A 2	AB35 80 A 2	**AC30 80 A 2**	AC35 80 A 2	0.75	2800	1.84	74.50	0.79	2.56	4.7	2.6	2.8	70	62	0.0006	26	01 ATEX 102	02 ATEX 044X	01 ATEX 103	02 ATEX 045X	4
AB30 80 B 2	AB35 80 B 2	**AC30 80 B 2**	AC35 80 B 2	1.10	2845	2.68	77.00	0.77	3.69	5.3	3.0	3.1	70	62	0.0008	26	01 ATEX 102	02 ATEX 044X	01 ATEX 103	02 ATEX 045X	4
AB30 90 S 2	AB35 90 S 2	**AC30 90 S 2**	AC35 90 S 2	1.50	2845	3.26	79.00	0.84	5.04	6.2	2.3	2.5	77	69	0.0012	33	01 ATEX 102	02 ATEX 044X	01 ATEX 103	02 ATEX 045X	4
AB30 90 L 2	AB35 90 L 2	**AC30 90 L 2**	AC35 90 L 2	2.20	2820	4.53	80.50	0.87	7.45	5.5	2.6	2.8	77	69	0.0015	33	01 ATEX 102	02 ATEX 044X	01 ATEX 103	02 ATEX 045X	4
AB30 100 LA 2	AB35 100 LA 2	**AC30 100 LA 2**	AC35 100 LA 2	3.00	2910	6.64	82.50	0.79	9.85	7.5	3.2	3.4	80	72	0.0029	46	01 ATEX 102	02 ATEX 044X	01 ATEX 103	02 ATEX 045X	4
AB30 112 M 2	AB35 112 M 2	**AC30 112 M 2**	AC35 112 M 2	4.00	2900	7.97	84.20	0.86	13.17	6.8	2.0	2.2	80	72	0.0074	65	02 ATEX 122	02 ATEX 124X	02 ATEX 123	02 ATEX 125X	4
AB30 132 SA 2	AB35 132 SA 2	**AC30 132 SA 2**	AC35 132 SA 2	5.50	2905	10.90	85.00	0.86	18.08	6.5	2.8	3.1	81	73	0.0124	95	02 ATEX 122	02 ATEX 124X	02 ATEX 123	02 ATEX 125X	4
AB30 132 SB 2	AB35 132 SB 2	**AC30 132 SB 2**	AC35 132 SB 2	7.50	2925	14.10	86.00	0.89	24.49	6.6	2.5	2.7	83	75	0.0150	95	02 ATEX 122	02 ATEX 124X	02 ATEX 123	02 ATEX 125X	4
AB30 132 MB 2	AB35 132 MB 2	**AC30 132 MB 2**	AC35 132 MB 2	9.20	2900	18.00	84.00	0.88	30.30	7.5	2.8	3.0	83	75	0.0178	105	02 ATEX 122	02 ATEX 124X	02 ATEX 123	02 ATEX 125X	4
AB30 132 ML 2	AB35 132 ML 2	**AC30 132 ML 2**	AC35 132 ML 2	11.00	2930	20.00	92.00	0.86	36.00	7.0	2.8	3.1	83	75	0.0216	105	02 ATEX 122	02 ATEX 124X	02 ATEX 123	02 ATEX 125X	4
AB30 160 MA 2	AB35 160 MA 2	**AC30 160 MA 2**	AC35 160 MA 2	11.00	2930	20.00	89.00	0.89	35.85	6.6	2.5	2.8	84	76	0.0360	180	02 ATEX 122	02 ATEX 124X	02 ATEX 123	02 ATEX 125X	4
AB30 160 MB 2	AB35 160 MB 2	**AC30 160 MB 2**	AC35 160 MB 2	15.00	2950	26.80	89.70	0.90	48.56	7.0	2.9	3.1	84	76	0.0463	180	02 ATEX 122	02 ATEX 124X	02 ATEX 123	02 ATEX 125X	4
AB30 160 L 2	AB35 160 L 2	**AC30 160 L 2**	AC35 160 L 2	18.50	2930	33.00	89.80	0.90	60.30	7.0	2.8	3.1	84	76	0.0534	195	02 ATEX 122	02 ATEX 124X	02 ATEX 123	02 ATEX 125X	4
AB30 180 M 2	AB35 180 M 2	**AC30 180 M 2**	AC35 180 M 2	22.00	2945	39.00	90.60	0.90	71.34	7.5	2.8	3.2	83	74	0.0818	230	06 ATEX 074	Pending	06 ATEX 073	Pending	4
AB30 200 LA 2	AB35 200 LA 2	**AC30 200 LA 2**	AC35 200 LA 2	30.00	2975	54.00	91.50	0.88	96.30	8.5	3.5	3.7	87	77	0.1625	285	06 ATEX 074	Pending	06 ATEX 073	Pending	4
AB30 200 LB 2	AB35 200 LB 2	**AC30 200 LB 2**	AC35 200 LB 2	37.00	2975	65.00	91.70	0.90	118.77	7.9	2.8	3.2	87	77	0.1947	305	06 ATEX 074	Pending	06 ATEX 073	Pending	4
AB30 225 M 2	AB35 225 M 2	**AC30 225 M 2**	AC35 225 M 2	45.00	2975	79.00	92.30	0.89	144.45	9.0	2.6	3.0	89	79	0.2902	385	06 ATEX 074	Pending	06 ATEX 073	Pending	4
AB30 250 M 2	AB35 250 M 2	**AC30 250 M 2**	AC35 250 M 2	55.00	2980	95.00	92.50	0.90	176.26	7.3	2.5	2.8	90	79	0.4197	505	06 ATEX 074	Pending	06 ATEX 073	Pending	4
AB30 280 S 2	AB35 280 S 2	**AC30 280 S 2**	AC35 280 S 2	75.00	2980	134.00	93.00	0.87	240.35	7.3	2.7	3.3	88	76	0.5200	842	08 ATEX 012	---	00 ATEX 053	01 ATEX 003X	4
AB30 280 M 2	AB35 280 M 2	**AC30 280 M 2**	AC35 280 M 2	90.00	2985	159.00	93.00	0.88	287.94	8.6	3.1	3.8	88	76	0.6300	881	08 ATEX 012	---	00 ATEX 053	01 ATEX 003X	4
AB30 315 S 2	AB35 315 S 2	**AC30 315 S 2**	AC35 315 S 2	110.00	2980	185.00	94.10	0.91	352.52	7.5	2.3	2.5	90	76	0.7000	932	08 ATEX 012	---	00 ATEX 053	01 ATEX 003X	4
AB30 315 M 2	AB35 315 M 2	**AC30 315 M 2**	AC35 315 M 2	132.00	2975	229.00	93.00	0.90	423.70	7.9	2.5	3.3	90	76	0.7500	948	08 ATEX 012	---	00 ATEX 053	01 ATEX 003X	4
AB30 315 LA 2	AB35 315 LA 2	**AC30 315 LA 2**	AC35 315 LA 2	132.00	2984	222.00	94.00	0.92	422.47	7.0	2.0	2.3	99	85	1.8800	1340	08 ATEX 021	---	07 ATEX 073	---	4
AB30 315 LB 2	AB35 315 LB 2	**AC30 315 LB 2**	AC35 315 LB 2	160.00	2984	269.00	94.50	0.91	512.21	7.0	1.7	2.0	99	85	2.2500	1430	08 ATEX 021	---	07 ATEX 073	---	4
AB30 315 LC 2	AB35 315 LC 2	**AC30 315 LC 2**	AC35 315 LC 2	200.00	2983	332.00	95.20	0.91	640.30	7.4	1.7	2.0	99	85	2.7900	1550	08 ATEX 021	---	07 ATEX 073	---	4

◗ $I'_n = I_n \cdot \frac{400}{U'}$ (I'_n = current at U' Volt);

▼ $J = \frac{PD^2}{4}$

★ Versions that need special installation solutions

◆ T3, T5 and T6 see table 1B

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Three-phase motors II 2G II 2GD Speed Rated data at **400 V 50 Hz** direct on line start **1500** rpm

Motor type				Rated output	Speed	Current	Efficiency	Power factor	Torque	Starting current	Starting torque	Maximum torque	Noise level		Moment of	Mass	CESI Certificates				Class T
IIB		IIC		P_n	n	I_n ◗	η	cos φ	M_n	I_a/I_n	M_a/M_n	M_m/M_n	[dB(A)]		J ▼	m	IIB		IIC		◆
Ex d	Ex de	Ex d	Ex de	[kW]	[1/min]	[A]	[%]		[Nm]				Lw	Lp	[kgm²]	[kg]	standard	★	standard	★	
AB30 63 A 4	AB35 63 A 4	**AC30 63 A 4**	AC35 63 A 4	0.12	1380	0.62	58.00	0.55	0.93	4.5	2.3	2.5	52	44	0.0002	16	01 ATEX 102	02 ATEX 044X	01 ATEX 103	02 ATEX 045X	4
AB30 63 B 4	AB35 63 B 4	**AC30 63 B 4**	AC35 63 B 4	0.18	1340	0.67	62.00	0.65	1.28	4.2	2.3	2.5	52	44	0.0002	16	01 ATEX 102	02 ATEX 044X	01 ATEX 103	02 ATEX 045X	4
AB30 71 A 4	AB35 71 A 4	**AC30 71 A 4**	AC35 71 A 4	0.25	1372	0.80	60.00	0.78	1.72	3.1	2.2	2.6	56	48	0.0006	19	01 ATEX 102	02 ATEX 044X	01 ATEX 103	02 ATEX 045X	4
AB30 71 B 4	AB35 71 B 4	**AC30 71 B 4**	AC35 71 B 4	0.37	1390	1.10	69.00	0.72	2.53	3.5	2.2	2.7	56	48	0.0009	19	01 ATEX 102	02 ATEX 044X	01 ATEX 103	02 ATEX 045X	4
AB30 80 A 4	AB35 80 A 4	**AC30 80 A 4**	AC35 80 A 4	0.55	1380	1.60	69.00	0.71	3.86	4.0	2.3	2.5	59	51	0.0009	26	01 ATEX 102	02 ATEX 044X	01 ATEX 103	02 ATEX 045X	4
AB30 80 B 4	AB35 80 B 4	**AC30 80 B 4**	AC35 80 B 4	0.75	1390	2.06	73.00	0.72	5.15	4.0	2.3	2.6	59	51	0.0013	26	01 ATEX 102	02 ATEX 044X	01 ATEX 103	02 ATEX 045X	4
AB30 90 S 4	AB35 90 S 4	**AC30 90 S 4**	AC35 90 S 4	1.10	1390	2.58	76.00	0.81	7.56	4.1	2.0	2.4	62	54	0.0020	33	01 ATEX 102	02 ATEX 044X	01 ATEX 103	02 ATEX 045X	4
AB30 90 L 4	AB35 90 L 4	**AC30 90 L 4**	AC35 90 L 4	1.50	1400	3.54	77.50	0.79	10.23	5.0	2.3	2.5	62	54	0.0026	33	01 ATEX 102	02 ATEX 044X	01 ATEX 103	02 ATEX 045X	4
AB30 100 LA 4	AB35 100 LA 4	**AC30 100 LA 4**	AC35 100 LA 4	2.20	1427	5.15	80.10	0.77	14.72	4.4	2.1	2.3	63	55	0.0043	46	01 ATEX 102	02 ATEX 044X	01 ATEX 103	02 ATEX 045X	4
AB30 100 LB 4	AB35 100 LB 4	**AC30 100 LB 4**	AC35 100 LB 4	3.00	1436	7.07	81.70	0.75	19.95	4.8	2.4	2.8	63	55	0.0053	46	01 ATEX 102	02 ATEX 044X	01 ATEX 103	02 ATEX 045X	4
AB30 112 M 4	AB35 112 M 4	**AC30 112 M 4**	AC35 112 M 4	4.00	1435	8.28	85.00	0.82	26.62	5.5	2.7	3.5	68	60	0.0103	65	02 ATEX 122	02 ATEX 124X	02 ATEX 123	02 ATEX 125X	4
AB30 132 SB 4	AB35 132 SB 4	**AC30 132 SB 4**	AC35 132 SB 4	5.50	1455	11.90	87.00	0.77	36.10	6.3	2.4	2.8	72	64	0.0250	95	02 ATEX 122	02 ATEX 124X	02 ATEX 123	02 ATEX 125X	4
AB30 132 MB 4	AB35 132 MB 4	**AC30 132 MB 4**	AC35 132 MB 4	7.50	1460	17.20	86.30	0.73	49.06	5.3	2.7	3.1	75	67	0.0324	95	02 ATEX 122	02 ATEX 124X	02 ATEX 123	02 ATEX 125X	4
AB30 132 ML 4	AB35 132 ML 4	**AC30 132 ML 4**	AC35 132 ML 4	8.80	1455	18.50	87.00	0.79	57.59	6.8	2.5	3.5	75	67	0.0405	105	02 ATEX 122	02 ATEX 124X	02 ATEX 123	02 ATEX 125X	4
AB30 160 MB 4	AB35 160 MB 4	**AC30 160 MB 4**	AC35 160 MB 4	11.00	1465	22.90	89.00	0.78	71.71	6.2	2.5	3.0	77	69	0.0627	180	02 ATEX 122	02 ATEX 124X	02 ATEX 123	02 ATEX 125X	4
AB30 160 L 4	AB35 160 L 4	**AC30 160 L 4**	AC35 160 L 4	15.00	1470	31.40	89.50	0.77	97.45	5.9	2.5	3.0	77	69	0.0801	195	02 ATEX 122	02 ATEX 124X	02 ATEX 123	02 ATEX 125X	4
AB30 180 M 4	AB35 180 M 4	**AC30 180 M 4**	AC35 180 M 4	18.50	1470	39.00	89.80	0.76	120.19	6.0	3.2	3.0	79	70	0.1236	230	06 ATEX 074	Pending	06 ATEX 073	Pending	4
AB30 180 L 4	AB35 180 L 4	**AC30 180 L 4**	AC35 180 L 4	22.00	1470	44.00	91.00	0.79	142.93	6.5	2.8	3.1	79	70	0.1493	245	06 ATEX 074	Pending	06 ATEX 073	Pending	4
AB30 200 LB 4	AB35 200 LB 4	**AC30 200 LB 4**	AC35 200 LB 4	30.00	1470	54.00	91.20	0.88	194.90	6.5	2.5	2.9	82	72	0.2456	305	06 ATEX 074	Pending	06 ATEX 073	Pending	4
AB30 225 S 4	AB35 225 S 4	**AC30 225 S 4**	AC35 225 S 4	37.00	1480	69.00	91.70	0.84	238.75	7.1	2.7	3.0	84	73	0.3737	360	06 ATEX 074	Pending	06 ATEX 073	Pending	4
AB30 225 M 4	AB35 225 M 4	**AC30 225 M 4**	AC35 225 M 4	45.00	1480	85.00	92.50	0.83	290.37	6.2	2.4	2.8	84	73	0.4479	385	06 ATEX 074	Pending	06 ATEX 073	Pending	4
AB30 250 M 4	AB35 250 M 4	**AC30 250 M 4**	AC35 250 M 4	55.00	1485	96.00	94.20	0.88	353.70	7.2	2.9	2.9	86	75	0.7673	540	06 ATEX 074	Pending	06 ATEX 073	Pending	4
AB30 280 S 4	AB35 280 S 4	**AC30 280 S 4**	AC35 280 S 4	75.00	1480	135.00	93.00	0.86	483.95	6.3	2.2	2.4	82	70	0.9500	875	08 ATEX 012	---	00 ATEX 053	01 ATEX 003X	4
AB30 280 M 4	AB35 280 M 4	**AC30 280 M 4**	AC35 280 M 4	90.00	1485	162.00	93.50	0.86	578.79	7.3	3.0	3.1	82	70	1.1200	901	08 ATEX 012	---	00 ATEX 053	01 ATEX 003X	4
AB30 315 S 4	AB35 315 S 4	**AC30 315 S 4**	AC35 315 S 4	110.00	1488	196.00	94.00	0.86	705.98	7.5	2.1	2.2	85	71	1.2700	971	08 ATEX 012	---	00 ATEX 053	01 ATEX 003X	4
AB30 315 M 4	AB35 315 M 4	**AC30 315 M 4**	AC35 315 M 4	132.00	1480	239.00	93.00	0.83	851.80	7.1	2.7	2.5	85	71	1.3300	984	08 ATEX 012	---	00 ATEX 053	01 ATEX 003X	4
AB30 315 LA 4	AB35 315 LA 4	**AC30 315 LA 4**	AC35 315 LA 4	132.00	1491	236.00	95.00	0.85	845.00	7.2	1.6	1.7	90	76	3.7200	1190	08 ATEX 021	---	07 ATEX 073	---	4
AB30 315 LB 4	AB35 315 LB 4	**AC30 315 LB 4**	AC35 315 LB 4	160.00	1488	282.00	95.50	0.86	1027.00	7.1	2.0	2.1	90	76	4.1100	1455	08 ATEX 021	---	07 ATEX 073	---	4
AB30 315 LC 4	AB35 315 LC 4	**AC30 315 LC 4**	AC35 315 LC 4	200.00	1488	354.00	95.20	0.86	1285.00	8.7	2.0	2.1	90	76	5.2100	1640	08 ATEX 021	---	07 ATEX 073	---	4

◗ $I'_n = I_n \cdot \frac{400}{U'}$ (I'_n = current at U' Volt);

▼ $J = \frac{PD^2}{4}$

★ Versions that need special installation solutions

◆ T3, T5 and T6 see table 1B

cemp Member of ABG Group

Three-phase motors II 2G II 2GD Speed Rated data at **400 V 50 Hz** direct on line start **1000** rpm

Motor type IIB Ex d	IIB Ex de	IIC Ex d	IIC Ex de	Rated output P_n [kW]	Speed n [1/min]	Current I_n ◗ [A]	Efficiency η [%]	Power factor cos φ	Torque M_n [Nm]	Starting current I_a/I_n	Starting torque M_a/M_n	Maximum torque M_m/M_n	Noise level [dB(A)] Lw	Lp	Moment of J ▼ [kgm²]	Mass m [kg]	CESI Certificates IIB standard	IIB ★	IIC standard	IIC ★	Class T ◆
AB30 63 B 6	AB35 63 B 6	**AC30 63 B 6**	AC35 63 B 6	0.09	850	0.65	38.00	0.52	1.00	2.0	2.3	2.2	48	40	0.0002	16	01 ATEX 102	02 ATEX 044X	01 ATEX 103	02 ATEX 045X	4
AB30 71 A 6	AB35 71 A 6	**AC30 71 A 6**	AC35 71 A 6	0.18	945	0.92	55.00	0.51	1.82	3.7	3.7	3.7	50	42	0.0007	19	01 ATEX 102	02 ATEX 044X	01 ATEX 103	02 ATEX 045X	4
AB30 71 B 6	AB35 71 B 6	**AC30 71 B 6**	AC35 71 B 6	0.26	918	1.00	60.00	0.63	2.71	3.4	2.6	2.6	50	42	0.0010	19	01 ATEX 102	02 ATEX 044X	01 ATEX 103	02 ATEX 045X	4
AB30 80 A 6	AB35 80 A 6	**AC30 80 A 6**	AC35 80 A 6	0.37	930	1.60	58.00	0.58	3.80	3.1	2.9	3.2	53	45	0.0022	26	01 ATEX 102	02 ATEX 044X	01 ATEX 103	02 ATEX 045X	4
AB30 80 B 6	AB35 80 B 6	**AC30 80 B 6**	AC35 80 B 6	0.55	930	1.80	70.00	0.65	5.79	2.8	2.0	2.1	53	45	0.0027	26	01 ATEX 102	02 ATEX 044X	01 ATEX 103	02 ATEX 045X	4
AB30 90 S 6	AB35 90 S 6	**AC30 90 S 6**	AC35 90 S 6	0.75	910	2.20	70.00	0.71	7.90	3.0	1.8	2.1	54	46	0.0034	33	01 ATEX 102	02 ATEX 044X	01 ATEX 103	02 ATEX 045X	4
AB30 90 L 6	AB35 90 L 6	**AC30 90 L 6**	AC35 90 L 6	1.10	935	3.35	73.00	0.65	11.24	3.4	2.0	2.2	54	46	0.0049	33	01 ATEX 102	02 ATEX 044X	01 ATEX 103	02 ATEX 045X	4
AB30 100 LB 6	AB35 100 LB 6	**AC30 100 LB 6**	AC35 100 LB 6	1.50	950	3.80	76.00	0.75	15.08	4.2	2.0	2.3	63	55	0.0088	46	01 ATEX 102	02 ATEX 044X	01 ATEX 103	02 ATEX 045X	4
AB30 112 M 6	AB35 112 M 6	**AC30 112 M 6**	AC35 112 M 6	2.20	960	6.11	80.00	0.65	21.89	5.2	2.3	2.1	65	57	0.0172	65	02 ATEX 122	02 ATEX 124X	02 ATEX 123	02 ATEX 125X	4
AB30 132 SB 6	AB35 132 SB 6	**AC30 132 SB 6**	AC35 132 SB 6	3.00	950	7.50	80.00	0.72	30.16	5.8	1.4	1.9	68	60	0.0323	95	02 ATEX 122	02 ATEX 124X	02 ATEX 123	02 ATEX 125X	4
AB30 132 MB 6	AB35 132 MB 6	**AC30 132 MB 6**	AC35 132 MB 6	4.00	970	9.50	81.40	0.75	39.38	6.1	1.7	1.9	68	60	0.0395	95	02 ATEX 122	02 ATEX 124X	02 ATEX 123	02 ATEX 125X	4
AB30 132 ML 6	AB35 132 ML 6	**AC30 132 ML 6**	AC35 132 ML 6	5.50	960	12.30	84.00	0.77	54.71	4.8	1.8	2.0	68	60	0.0506	105	02 ATEX 122	02 ATEX 124X	02 ATEX 123	02 ATEX 125X	4
AB30 160 MB 6	AB35 160 MB 6	**AC30 160 MB 6**	AC35 160 MB 6	7.50	950	15.70	85.00	0.81	75.39	5.9	1.6	2.0	72	64	0.0919	180	02 ATEX 122	02 ATEX 124X	02 ATEX 123	02 ATEX 125X	4
AB30 160 L 6	AB35 160 L 6	**AC30 160 L 6**	AC35 160 L 6	11.00	950	21.50	87.00	0.85	110.58	6.2	1.7	2.0	72	64	0.1218	195	02 ATEX 122	02 ATEX 124X	02 ATEX 123	02 ATEX 125X	4
AB30 180 L 6	AB35 180 L 6	**AC30 180 L 6**	AC35 180 L 6	15.00	960	29.00	88.00	0.86	149.22	5.4	1.7	2.2	76	67	0.2263	245	06 ATEX 074	Pending	06 ATEX 073	Pending	4
AB30 200 LA 6	AB35 200 LA 6	**AC30 200 LA 6**	AC35 200 LA 6	18.50	975	38.00	91.00	0.77	181.21	5.9	1.6	2.1	79	69	0.2986	295	06 ATEX 074	Pending	06 ATEX 073	Pending	4
AB30 200 LB 6	AB35 200 LB 6	**AC30 200 LB 6**	AC35 200 LB 6	22.00	980	44.00	91.70	0.78	214.39	6.1	1.6	2.1	79	69	0.3064	305	06 ATEX 074	Pending	06 ATEX 073	Pending	4
AB30 225 M 6	AB35 225 M 6	**AC30 225 M 6**	AC35 225 M 6	30.00	985	61.00	91.70	0.78	290.86	5.8	2.0	2.5	81	70	0.7617	385	06 ATEX 074	Pending	06 ATEX 073	Pending	4
AB30 250 M 6	AB35 250 M 6	**AC30 250 M 6**	AC35 250 M 6	37.00	990	73.00	92.00	0.79	356.92	5.2	2.0	2.4	81	70	1.0475	520	06 ATEX 074	Pending	06 ATEX 073	Pending	4
AB30 280 S 6	AB35 280 S 6	**AC30 280 S 6**	AC35 280 S 6	45.00	982	89.00	91.40	0.80	437.63	4.9	2.5	2.8	77	65	1.1400	858	08 ATEX 012	---	00 ATEX 053	01 ATEX 003X	4
AB30 280 M 6	AB35 280 M 6	**AC30 280 M 6**	AC35 280 M 6	55.00	980	107.00	92.00	0.81	535.97	4.7	2.3	2.4	77	65	1.3600	894	08 ATEX 012	---	00 ATEX 053	01 ATEX 003X	4
AC30 315 S 6	AC35 315 S 6	**AC30 315 S 6**	AC35 315 S 6	75.00	990	147.20	94.00	0.79	724.00	6.3	2.6	2.7	79	65	1.6300	965	08 ATEX 012	---	00 ATEX 053	01 ATEX 003X	4
AC30 315 M 6	AC35 315 M 6	**AC30 315 M 6**	AC35 315 M 6	90.00	990	175.00	94.00	0.79	871.00	4.4	1.8	1.8	79	65	1.8300	991	08 ATEX 012	---	00 ATEX 053	01 ATEX 003X	4
AB30 315 LA 6	AB35 315 LA 6	**AC30 315 LA 6**	AC35 315 LA 6	90.00	994	167.60	94.00	0.83	865.00	5.3	2.2	2.3	84	70	5.7300	1370	08 ATEX 021	---	07 ATEX 073	---	4
AB30 315 LB 6	AB35 315 LB 6	**AC30 315 LB 6**	AC35 315 LB 6	110.00	994	205.00	94.00	0.83	1057.00	5.3	2.2	2.3	84	70	6.9400	1450	08 ATEX 021	---	07 ATEX 073	---	4
AB30 315 LC 6	AB35 315 LC 6	**AC30 315 LC 6**	AC35 315 LC 6	132.00	995	243.00	94.00	0.83	1264.00	5.3	2.1	2.2	84	70	8.4500	1520	08 ATEX 021	---	07 ATEX 073	---	4

◗ $I'_n = I_n \cdot \frac{400}{U'}$ (I'_n = current at U' Volt);

▼ $J = \frac{PD^2}{4}$

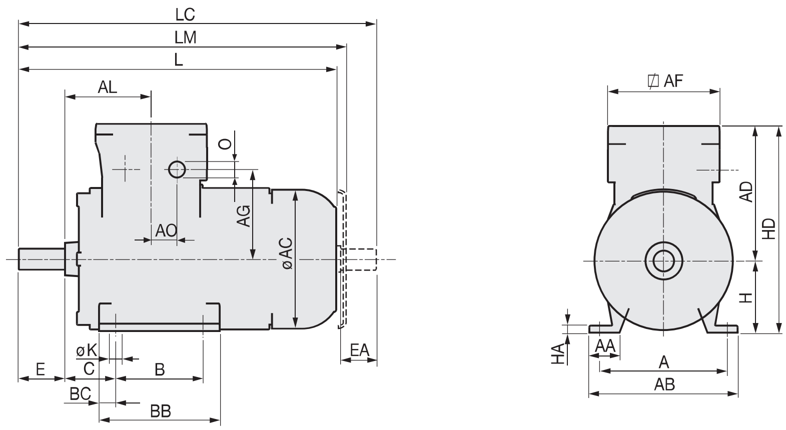
★ Versions that need special installation solutions

◆ T3, T5 and T6 see table 1B

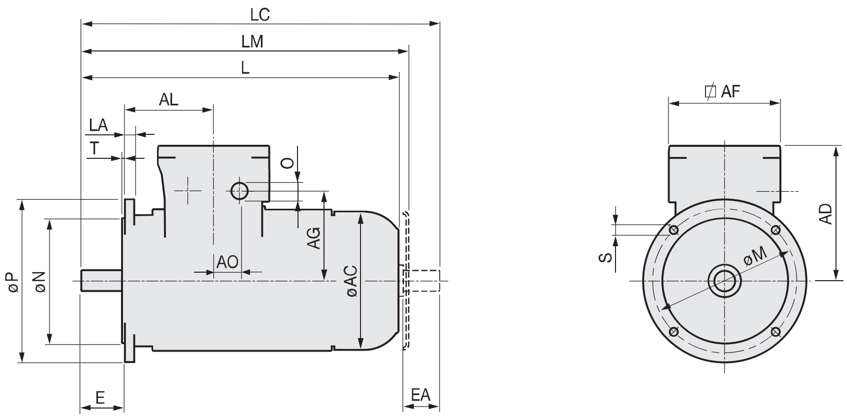
Dimensiones [mm]

Overall dimensions [mm] | **63÷315** | **IM B3** | **IM B5** | **IM B35**

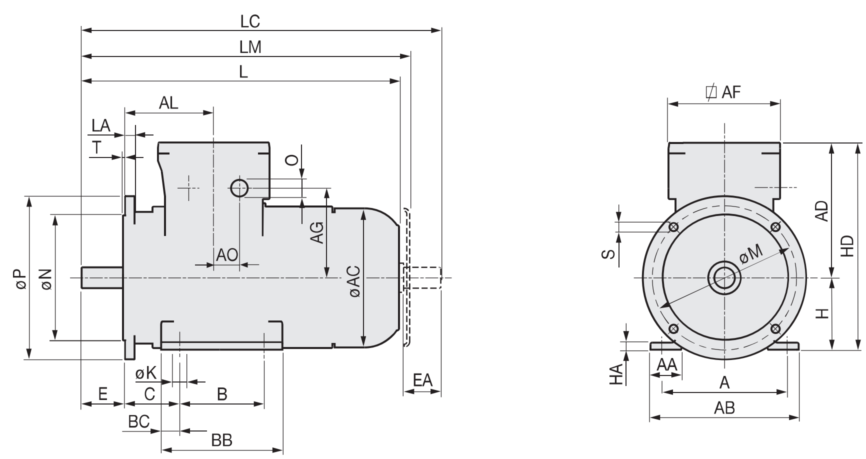
IM B3

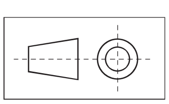


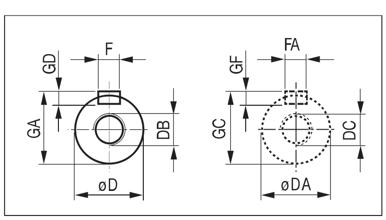
IM B5



IM B35







◆
225÷315
8 holes
8 trous
8 Bohrungen
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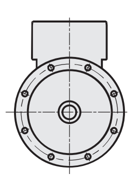
8 fori



Overall dimensions [mm]

ENGLISH

Type	A	AA	AB	ø AC	AD	⊡ AF	AL	B	BC	BB	C	H $^{0}_{-0,5}$	HA	HD	ø K	L	LC
63	100	25	125	123	145	139	95	80	9.5	105	40	63	6	208	7	247	275.5
71	112	32	140	140	155	139	106	90	11.0	112	45	71	7	226	7	276	311.0
80	125	40	160	158	165	139	142	100	15.0	130	50	80	8	245	9	327	372.5
90 S	140	45	175	178	175	139	125	100	14.0	157	56	90	9	265	9	390	441.0
90 L	140	45	175	178	175	139	125	125	14.0	157	56	90	9	265	9	390	441.0
100	160	45	200	196	185	139	125	140	15.0	170	63	100	10	285	12	430	490.5
112	190	45	235	223	206	139	138	140	17.0	175	70	112	12	318	12	475	543.5
132 S	216	56	272	258	260	205	163	140	22.0	222	89	132	13	392	12	505	590.0
132 M-L	216	56	272	258	260	205	163	178	22.0	222	89	132	13	392	12	580	665.0
160 M	254	64	318	310	290	205	166	210	25.0	305	108	160	15	450	14	693	811.0
160 L	254	64	318	310	290	205	166	254	25.0	305	108	160	15	450	14	693	811.0
180 M	279	71	350	359	326	223	223	241	25.0	340	121	180	17	506	14	814	923.5
180 L	279	71	350	359	326	223	223	279	25.0	340	121	180	17	506	14	814	923.5
200	318	75	393	395	346	223	230	305	27.0	360	133	200	18	546	18	867	985.0
225 S	356	78	431	445	371	223	240	286	38.0	380	149	225	20	596	18	945	1090.0
225 M 2	356	78	431	445	371	223	240	311	38.0	380	149	225	20	596	18	915	1030.0
225 M 4-8	356	78	431	445	371	223	240	311	38.0	380	149	225	20	596	18	945	1090.0
250 M 2	406	95	500	467	396	223	221	349	33.0	415	168	250	22	646	24	963	1110.0
250 M 4-8	406	95	500	467	396	223	221	349	33.0	415	168	250	22	646	24	963	1110.0
280 S 2	457	90	540	558	548	320	316	368	80.0	550	190	280	41	828	25	1119	1272.0
280 S 4-8	457	90	540	558	548	320	316	368	80.0	550	190	280	41	828	25	1119	1272.0
280 M 2	457	90	540	558	548	320	316	419	80.0	550	190	280	41	828	25	1119	1272.0
280 M 4-8	457	90	540	558	548	320	316	419	80.0	550	190	280	41	828	25	1119	1272.0
315 S 2	508	110	590	558	536	320	316	406	32.0	470	216	315	41	851	27	1269	1420.0
315 S 4-8	508	110	590	558	536	320	316	406	32.0	470	216	315	41	851	27	1299	1480.0
315 M 2	508	110	590	558	536	320	316	457	32.0	521	216	315	41	851	27	1269	1420.0
315 M 4-8	508	110	590	558	536	320	316	457	32.0	521	216	315	41	851	27	1299	1480.0
315 L 2	508	100	590	626	612	320	330	457	68.5	610	216	315	41	927	24	1407	1560.0
315 L 4-8	508	100	590	626	612	320	330	508	68.5	610	216	315	41	927	24	1437	1620.0

Type	✳ LM	AO	IEC 423 n. x O	AG	ø D ø DA	E EA	F FA	GA GC	GD GF	DB DC	LA	ø M	ø N	ø P	◆ S	T
63	275	24	1 x M25	100	11j6	23	4	12.5	4	M4	6.5	115	95j6	140	10	3.0
71	305	24	1 x M25	110	14j6	30	5	16.0	5	M5	6.5	130	110j6	160	10	3.5
80	356	24	1 x M25	120	19j6	40	6	21.5	6	M6	11.0	165	130j6	200	12	3.5
90 S	418	24	1 x M25	130	24j6	50	8	27.0	7	M8	12.0	165	130j6	200	12	3.5
90 L	418	24	1 x M25	130	24j6	50	8	27.0	7	M8	12.0	165	130j6	200	12	3.5
100	458	24	1 x M25	140	28j6	60	8	31.0	7	M10	14.0	215	180j6	250	15	4.0
112	503	24	1 x M25	161	28j6	60	8	31.0	7	M10	16.0	215	180j6	250	15	4.0
132 S	550	35	2 x M32	185	38k6	80	10	41.0	8	M12	17.0	265	230j6	300	15	4.0
132 M-L	625	35	2 x M32	185	38k6	80	10	41.0	8	M12	17.0	265	230j6	300	15	4.0
160 M	738	35	2 x M32	215	42k6	110	12	45.0	8	M16	18.0	300	250h6	350	18	5.0
160 L	738	35	2 x M32	215	42k6	110	12	45.0	8	M16	18.0	300	250h6	350	18	5.0
180 M	860	38	2 x M40	266	48k6	110	14	52.0	9	M16	20.0	300	250h6	350	18	5.0
180 L	860	38	2 x M40	266	48k6	110	14	52.0	9	M16	20.0	300	250h6	350	18	5.0
200	913	38	2 x M40	286	55m6	110	16	59.0	10	M20	20.0	350	300h6	400	18	5.0
225 S	991	38	2 x M40	311	60m6	140	18	64.0	11	M20	22.0	400	350h6	450	18	5.0
225 M 2	961	38	2 x M40	311	55m6	110	16	59.0	10	M20	22.0	400	350h6	450	18	5.0
225 M 4-8	991	38	2 x M40	311	60m6	140	18	64.0	11	M20	22.0	400	350h6	450	18	5.0
250 M 2	1006	38	2 x M40	336	60m6	140	18	64.0	11	M20	22.0	500	450h6	550	18	5.0
250 M 4-8	1006	38	2 x M40	336	65m6	140	18	69.0	11	M20	22.0	500	450h6	550	18	5.0
280 S 2	1215	56	2 x M63	410	65m6	140	18	69.0	11	M20	18.0	500	450h6	550	18	5.0
280 S 4-8	1215	56	2 x M63	410	75m6	140	20	79.5	12	M20	18.0	500	450h6	550	18	5.0
280 M 2	1215	56	2 x M63	410	65m6	140	18	69.0	11	M20	18.0	500	450h6	550	18	5.0
280 M 4-8	1215	56	2 x M63	410	75m6	140	20	79.5	12	M20	18.0	500	450h6	550	18	5.0
315 S 2	1365	56	2 x M63	398	65m6	140	18	69.0	11	M20	22.0	600	550h6	660	22	6.0
315 S 4-8	1395	56	2 x M63	398	80m6	170	22	85.0	14	M20	22.0	600	550h6	660	22	6.0
315 M 2	1365	56	2 x M63	398	65m6	140	18	69.0	11	M20	22.0	600	550h6	660	22	6.0
315 M 4-8	1395	56	2 x M63	398	80m6	170	22	85.0	14	M20	22.0	600	550h6	660	22	6.0
315 L 2	1503	56	2 x M63	474	65m6	140	18	69.0	11	M20	22.0	600	550h6	660	24	6.0
315 L 4-8	1533	56	2 x M63	474	80m6	170	22	85.0	14	M20	22.0	600	550h6	660	24	6.0

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