American Electronic Products, Inc.

AC INDUCTION MOTOR SOLUTIONS

Reliable motor solutions for OEM and industrial applications

Single-phase and three-phase induction motors for compressors, pumps, fans, conveyors, agricultural equipment, and general industrial machinery.



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Product Range

AEP offers a wide range of induction motors for common OEM and industrial applications. Use this catalog to identify the appropriate enclosure, phase, speed, frame, and horsepower range for your equipment.

For application assistance, current model availability, dimensional information, or exact electrical ratings, contact AEP with the required model and operating conditions.

Motor Series

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This catalog presents a selection of AEP standard products. AEP combines strong engineering and manufacturing capabilities to support OEM customers with application-specific and customized motor solutions. Many non-standard configurations and custom products are not shown here. In addition to complete motors, AEP provides motor components and subassemblies, including stator assemblies and rotor assemblies, for OEM applications. Contact AEP to discuss your requirements.

Certifications & Compliance

AEP products are available with a range of internationally recognized certifications and compliance marks to support customer, application, and destination-market requirements.

TÜV Rheinland CE CCC C SA US RoHS ISO 9001 EMC Production inspected meps

Certification coverage varies by model, configuration, and destination market. Not every product listed in this catalog carries all certifications shown above.

A SERIES

Single-Phase ODP Air Compressor Motors

Capacitor-start compressor-duty motors for demanding starting-torque applications.

PHASE	1Ø	ENCLOSURE	ODP
HP RANGE	1/2-10 HP	SPEED	1725 / 1750 / 3450 / 3500 rpm
VOLTAGE	115/208-230, 120/240, 208-230, or 230 V by model	FRAME	56, 184, 215
APPLICATIONS	Air compressors, compressor packages		

Model Ratings

Model	Phase	HP	Poles	RPM	Voltage	Frame	FLA	Protection
ZL-A01	1Ø	1/2	2	3450	115/208-230	56	4.2	Manual
ZL-A02	1Ø	1/2	4	1725	115/208-230	56	4.3	Manual
ZL-A03	1Ø	3/4	2	3450	115/208-230	56	4.9	Manual
ZL-A04	1Ø	3/4	4	1725	115/208-230	56	5.5	Manual
ZL-A05	1Ø	1	2	3450	115/208-230	56	5.5	Manual
ZL-A06	1Ø	1	4	1725	115/208-230	56	6.7	Manual
ZL-A07	1Ø	1-1/2	2	3450	115/208-230	56	7.5	Manual
ZL-A08	1Ø	1-1/2	4	1725	115/208-230	56	9.0	Manual
ZL-A09	1Ø	2	2	3450	115/208-230	56	9.6	Manual
ZL-A10	1Ø	2	4	1725	115/208-230	56	9.8	Manual
ZL-A11	1Ø	3	2	3450	208-230	56	13.6	Manual
ZL-A12	1Ø	3	4	1725	208-230	56	14	Manual
ZL-A16	1Ø	3	2	3450	230	56	15	Manual
ZL-A17	1Ø	3.5	2	3450	230	56	16.2	Manual
ZL-A18	1Ø	3.7	2	3450	230	56	17.2	Manual
ZL-A19	1Ø	4	2	3450	230	56	17.5	Manual
ZL-A20	1Ø	5	2	3500	208-230	56	22	Manual
ZL-A21	1Ø	5	2	3500	208-230	184	19.8	Manual
ZL-A22	1Ø	5	2	3500	208-230	184T	23	Manual
ZL-A23	1Ø	7 1/2	2	3500	208-230	215T	32	Manual
ZL-A24	1Ø	7 1/2	4	1750	208-230	215T	33.8	Manual
ZL-A25	1Ø	10	2	3500	208-230	215T	41.5	Manual
ZL-A26	1Ø	10	4	1750	208-230	215T	40.0	Manual

Note: Please note that motor dimensions and performance data may be subject to change without notice.

FLA = Full Load Amps. Values apply to the listed connection shown. Contact AEP for ratings at other voltage connections.

B SERIES

Single-Phase ODP General-Purpose Motors

Single-phase ODP motors for pumps, fans, blowers, conveyors, and general industrial equipment.

PHASE	1Ø	ENCLOSURE	ODP
HP RANGE	1/3-10 HP	SPEED	1725 / 1750 / 3450 / 3500 rpm
VOLTAGE	115/208-230 or 208-230 V	FRAME	56 through 215T
APPLICATIONS	Pumps, fans, blowers, conveyors, general industrial equipment		

Model Ratings

Model	Phase	HP	Poles	RPM	Voltage	Hz	Frame	Service Factor	FLA
ZL-B1	1Ø	1/3	2	3450	115/208-230	60	56	1.35	2.3
ZL-B2	1Ø	1/3	4	1725	115/208-230	60	56	1.35	2.2
ZL-B3	1Ø	1/2	2	3450	115/208-230	60	56	1.25	3.1
ZL-B4	1Ø	1/2	4	1725	115/208-230	60	56	1.35	2.9
ZL-B5	1Ø	3/4	2	3450	115/208-230	60	56	1.25	4.1
ZL-B6	1Ø	3/4	4	1725	115/208-230	60	56	1.25	4.2
ZL-B7	1Ø	1	2	3450	115/208-230	60	56	1.25	5.6
ZL-B8	1Ø	1	4	1725	115/208-230	60	56	1.15	5.8
ZL-B9	1Ø	1.5	2	3450	115/208-230	60	56	1.15	7.1
ZL-B10	1Ø	1.5	4	1725	115/208-230	60	56	1.15	7.6
ZL-B11	1Ø	1.5	4	1725	115/208-230	60	145T	1.15	7.6
ZL-B12	1Ø	2	2	3450	115/208-230	60	145T	1.15	9.1
ZL-B13	1Ø	2	2	3450	115/208-230	60	56	1.15	9.1
ZL-B14	1Ø	2	4	1725	115/208-230	60	56	1.15	9.3
ZL-B15	1Ø	2	4	1725	115/208-230	60	145T	1.15	9.3
ZL-B16	1Ø	3	2	3450	115/208-230	60	145T	1.15	13.0
ZL-B17	1Ø	3	2	3450	115/208-230	60	56	1.15	13.0
ZL-B18	1Ø	3	2	3450	115/208-230	60	145T	1.15	13.0
ZL-B19	1Ø	3	4	1725	208-230	60	182T	1.15	13.5
ZL-B20	1Ø	5	2	3500	208-230	60	184T	1.15	20
ZL-B21	1Ø	5	4	1750	208-230	60	213T	1.15	21
ZL-B22	1Ø	7.5	4	1750	208-230	60	213T	1.15	32
ZL-B23	1Ø	10	4	1750	208-230	60	215T	1.15	40

Note: Please note that motor dimensions and performance data may be subject to change without notice.

FLA = Full Load Amps. Values apply to the listed connection shown. Contact AEP for ratings at other voltage connections.

C SERIES

Single-Phase ODP High-Efficiency Motors

High-efficiency single-phase ODP motors for general industrial equipment, pumps, fans, and light machinery.

PHASE	1Ø	ENCLOSURE	ODP
HP RANGE	1/3-3 HP	SPEED	1725 / 3450 rpm
VOLTAGE	115/208-230 or 208-230 V	FRAME	56, 145T, 182
APPLICATIONS	General industrial equipment, pumps, fans, light machinery		

Model Ratings

Model	Phase	HP	Poles	RPM	Voltage	Frame	Service Factor	FLA	Efficiency
ZL-C1	1Ø	1/3	2	3450	115/208-230	56	1.35	2.3	69.5%
ZL-C2	1Ø	1/3	4	1725	115/208-230	56	1.35	2.2	73.4%
ZL-C3	1Ø	1/2	2	3450	115/208-230	56	1.25	3.1	73.4%
ZL-C4	1Ø	1/2	4	1725	115/208-230	56	1.35	2.9	78.2%
ZL-C5	1Ø	3/4	2	3450	115/208-230	56	1.25	4.1	76.8%
ZL-C6	1Ø	3/4	4	1725	115/208-230	56	1.25	4.2	81.1%
ZL-C7	1Ø	1	2	3450	115/208-230	56	1.25	5.6	77.0%
ZL-C8	1Ø	1	4	1725	115/208-230	56	1.15	5.8	83.5%
ZL-C9	1Ø	1.5	2	3450	115/208-230	56	1.15	7.1	84.0%
ZL-C10	1Ø	1.5	4	1725	115/208-230	56	1.15	7.6	86.5%
ZL-C11	1Ø	1.5	4	1725	115/208-230	145T	1.15	7.6	86.5%
ZL-C12	1Ø	2	2	3450	115/208-230	145T	1.15	9.1	85.5%
ZL-C13	1Ø	2	2	3450	115/208-230	56	1.15	9.1	85.5%
ZL-C14	1Ø	2	4	1725	115/208-230	56	1.15	9.3	86.5%
ZL-C15	1Ø	2	4	1725	115/208-230	145T	1.15	9.3	86.5%
ZL-C16	1Ø	3	2	3450	115/208-230	145T	1.15	13.0	85.5%
ZL-C17	1Ø	3	2	3450	115/208-230	56	1.15	13.0	85.5%
ZL-C18	1Ø	3	4	1725	208-230	182	1.15	13.5	86.9%

Note: Please note that motor dimensions and performance data may be subject to change without notice.

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D SERIES

Single-Phase TEFC General-Purpose Motors

Single-phase TEFC motors for industrial environments exposed to dust and dirt.

PHASE	1Ø	ENCLOSURE	TEFC
HP RANGE	1/3-10 HP	SPEED	1725 / 1750 / 3450 / 3500 rpm
VOLTAGE	115/208-230 or 208-230 V	FRAME	56/56C through 215T
APPLICATIONS	Pumps, compressors, fans, conveyors, industrial equipment		

Model Ratings

Model	Phase	HP	Poles	RPM	Voltage	Frame	Service Factor	FLA	Protection
ZL-D1	1Ø	1/3	4	1725	115/208-230	56/56C	1.15	3.3	None
ZL-D2	1Ø	1/3	2	3450	115/208-230	56/56C	1.15	3.1	None
ZL-D3	1Ø	1/2	4	1725	115/208-230	56/56C	1.15	4.4	None
ZL-D4	1Ø	1/2	2	3450	115/208-230	56/56C	1.15	4.0	None
ZL-D5	1Ø	3/4	4	1725	115/208-230	56/56C	1.15	5.5	None
ZL-D6	1Ø	3/4	2	3450	115/208-230	56/56C	1.15	5.3	None
ZL-D7	1Ø	1	4	1725	115/208-230	56/56C	1.15	6.0	None
ZL-D8	1Ø	1	2	3450	115/208-230	56/56C	1.15	5.6	None
ZL-D9	1Ø	1-1/2	4	1725	115/208-230	56/56C	1.15	7.6	None
ZL-D10	1Ø	1-1/2	2	3450	115/208-230	56/56C	1.15	7.1	None
ZL-D11	1Ø	1 1/2	2	3450	115/208-230	56	1.00	7.1	None
ZL-D12	1Ø	1 1/2	2	3450	115/208-230	143T	1.00	7.1	None
ZL-D13	1Ø	1 1/2	4	1725	115/208-230	56	1.15	7.6	None
ZL-D14	1Ø	1 1/2	4	1725	115/208-230	145T	1.00	7.6	None
ZL-D15	1Ø	2	2	3450	115/208-230	56	1.15	9.0	None
ZL-D16	1Ø	2	2	3450	115/208-230	145T	1.15	9.0	None
ZL-D17	1Ø	2	4	1725	115/208-230	56	1.15	9.2	None
ZL-D18	1Ø	2	4	1725	208-230	145T	1.15	9.2	None
ZL-D19	1Ø	3	2	3450	115/208-230	56H	1.15	13.0	None
ZL-D20	1Ø	3	2	3450	208-230	145T	1.15	13.0	None
ZL-D21	1Ø	3	4	1725	208-230	184T	1.15	13.5	None
ZL-D22	1Ø	5	2	3500	208-230	184T	1.15	20.0	None
ZL-D23	1Ø	5	4	1750	208-230	184T	1.15	21	None
ZL-D24	1Ø	7 1/2	2	3500	208-230	213T	1.00	32	None
ZL-D25	1Ø	7 1/2	4	1750	208-230	215T	1.15	32	None
ZL-D26	1Ø	10	2	3500	208-230	215T	1.15	41.5	None

Note: Please note that motor dimensions and performance data may be subject to change without notice.

FLA = Full Load Amps. Values apply to the listed connection shown. Contact AEP for ratings at other voltage connections.

E SERIES

Three-Phase TEFC General-Purpose Motors

Three-phase TEFC motors for pumps, fans, compressors, conveyors, and general machinery.

PHASE	3Ø	ENCLOSURE	TEFC, IP55
HP RANGE	1/4-10 HP	SPEED	1725 / 1750 / 3450 / 3500 rpm
VOLTAGE	208-230/460 V	FRAME	48 through 215T
APPLICATIONS	Pumps, fans, compressors, conveyors, general machinery		

Model Ratings

Model	Phase	HP	Poles	RPM	Voltage	Frame	FLA
ZL-E1	3Ø	1/3	4	1725	208-230/460	48	1.15
ZL-E2	3Ø	1/4	4	1725	208-230/460	48	1.4
ZL-E3	3Ø	1/4	2	3450	208-230/460	48	1.3
ZL-E4	3Ø	1/3	2	3450	208-230/460	48	1.4
ZL-E5	3Ø	1/3	2	3450	208-230/460	48	1.6
ZL-E6	3Ø	1/3	4	1725	208-230/460	56	1.6
ZL-E7	3Ø	1/2	2	3450	208-230/460	48	1.8
ZL-E8	3Ø	1/2	2	3450	208-230/460	56	2.2
ZL-E9	3Ø	1/2	4	1725	208-230/460	48	2.0
ZL-E10	3Ø	1/2	4	1725	208-230/460	56	2.0
ZL-E11	3Ø	1/2	4	1725	208-230/460	56	2.2
ZL-E12	3Ø	3/4	2	3450	208-230/460	48	2.4
ZL-E13	3Ø	3/4	2	3450	208-230/460	56	3.2
ZL-E14	3Ø	3/4	4	1725	208-230/460	56	2.4
ZL-E15	3Ø	1	2	3450	208-230/460	56	3.2
ZL-E16	3Ø	1	2	3450	208-230/460	56	2.8
ZL-E17	3Ø	1	4	1725	208-230/460	56	3.3
ZL-E18	3Ø	1	4	1725	208-230/460	143T	3.2
ZL-E19	3Ø	1 1/2	2	3450	208-230/460	56	4.0

Note: Please note that motor dimensions and performance data may be subject to change without notice.

FLA = Full Load Amps. Values apply to the listed connection shown. Contact AEP for ratings at other voltage connections.

E SERIES - CONTINUED

Three-Phase TEFC General-Purpose Motors

Continued model ratings: ZL-E20 through ZL-E37.

Model Ratings

Model	Phase	HP	Poles	RPM	Voltage	Frame	FLA
ZL-E20	3Ø	1 1/2	2	3450	208-230/460	143T	4.0
ZL-E21	3Ø	1 1/2	4	1725	208-230/460	56	4.8
ZL-E22	3Ø	1 1/2	4	1725	208-230/460	145T	4.8
ZL-E23	3Ø	2	2	3450	208-230/460	56	4.8
ZL-E24	3Ø	2	2	3450	208-230/460	145T	4.8
ZL-E25	3Ø	2	4	1725	208-230/460	56H	6.0
ZL-E26	3Ø	2	4	1725	208-230/460	145T	6.0
ZL-E27	3Ø	3	2	3450	208-230/460	56	8.0
ZL-E28	3Ø	3	2	3450	208-230/460	145T	8.0
ZL-E29	3Ø	3	2	3450	208-230/460	182T	7.6
ZL-E30	3Ø	3	4	1725	208-230/460	182T	8.0
ZL-E31	3Ø	3	4	1725	208-230/460	182T	7.8
ZL-E32	3Ø	5	2	3500	208-230/460	184T	12.0
ZL-E33	3Ø	5	4	1750	208-230/460	184T	12.8
ZL-E34	3Ø	7 1/2	2	3500	208-230/460	213T	18.0
ZL-E35	3Ø	7 1/2	4	1750	208-230/460	213T	21.4
ZL-E36	3Ø	10	2	3500	208-230/460	215T	23.6
ZL-E37	3Ø	10	2	3500	208-230/460	215T	25

Note: Please note that motor dimensions and performance data may be subject to change without notice.

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F SERIES

Single-Phase TEFC Farm-Duty Motors

High-torque farm-duty motors for agricultural equipment, fans, augers, pumps, and material handling.

PHASE	1Ø	ENCLOSURE	TEFC
HP RANGE	1/3-10 HP	SPEED	1725 / 1750 rpm
VOLTAGE	115/208-230 or 208-230 V	FRAME	56 through 215T
APPLICATIONS	Agricultural equipment, fans, augers, pumps, farm machinery		

Model Ratings

Model	Phase	HP	Poles	RPM	Voltage	Hz	Frame	FLA
ZL-F1	1Ø	1/3	4	1725	115/208-230	60	56	3.3
ZL-F2	1Ø	1/2	4	1725	115/208-230	60	56	4.4
ZL-F3	1Ø	3/4	4	1725	115/208-230	60	56	5.5
ZL-F4	1Ø	1	4	1725	115/208-230	60	56	6.8
ZL-F5	1Ø	1.5	4	1725	115/208-230	60	56H	7.6
ZL-F6	1Ø	1.5	4	1725	115/208-230	60	145T	7.6
ZL-F7	1Ø	2	4	1725	115/208-230	60	56H	10
ZL-F8	1Ø	2	4	1725	115/208-230	60	145T	10
ZL-F9	1Ø	3	4	1725	208-230	60	184T	13.5
ZL-F10	1Ø	5	4	1750	208-230	60	184T	21
ZL-F11	1Ø	7.5	4	1750	208-230	60	215T	32
ZL-F12	1Ø	10	4	1750	208-230	60	215T	40

Note: Please note that motor dimensions and performance data may be subject to change without notice.

FLA = Full Load Amps. Values apply to the listed connection shown. Contact AEP for ratings at other voltage connections.

I SERIES

Single-Phase ODP Resilient-Base Motors

Resilient-base single-phase ODP motors for fans, blowers, pumps, and general machinery.

PHASE	1Ø	ENCLOSURE	ODP
HP RANGE	1/3-3 HP	SPEED	1725 / 3450 rpm
VOLTAGE	115/208-230 V	FRAME	56 / 143T / 145T
APPLICATIONS	Fans, blowers, pumps, general machinery requiring resilient mounting		

Model Ratings

Model	Phase	HP	Poles	RPM	Voltage	Hz	Frame	Service Factor	FLA
ZL-I1	1Ø	1/3	2	3450	115/208-230	60	56	1.15	2.35
ZL-I2	1Ø	1/3	4	1725	115/208-230	60	56	1.15	2.2
ZL-I3	1Ø	1/2	2	3450	115/208-230	60	56	1.15	3.0
ZL-I4	1Ø	1/2	4	1725	115/208-230	60	56	1.15	2.9
ZL-I5	1Ø	3/4	2	3450	115/208-230	60	56	1.15	4.15
ZL-I6	1Ø	3/4	4	1725	115/208-230	60	56	1.15	4.1
ZL-I7	1Ø	1	2	3450	115/208-230	60	56	1.15	6.1
ZL-I8	1Ø	1	4	1725	115/208-230	60	56	1.15	5.85
ZL-I9	1Ø	1	4	1725	115/208-230	60	143T	1.15	5.85
ZL-I10	1Ø	1.5	2	3450	115/208-230	60	56	1.15	7.5
ZL-I11	1Ø	1.5	2	3450	115/208-230	60	145T	1.15	7.8
ZL-I12	1Ø	1.5	4	1725	115/208-230	60	56	1.15	7.9
ZL-I13	1Ø	1.5	4	1725	115/208-230	60	145T	1.15	7.9
ZL-I14	1Ø	2	2	3450	115/208-230	60	56	1.15	9.6
ZL-I15	1Ø	2	2	3450	115/208-230	60	145T	1.15	9.6
ZL-I16	1Ø	2	4	1725	115/208-230	60	56	1.15	9.7
ZL-I17	1Ø	2	4	1725	115/208-230	60	145T	1.15	9.7
ZL-I18	1Ø	3	2	3450	115/208-230	60	56	1.15	13
ZL-I19	1Ø	3	2	3450	115/208-230	60	145T	1.15	13

Note: Please note that motor dimensions and performance data may be subject to change without notice.

FLA = Full Load Amps. Values apply to the listed connection shown. Contact AEP for ratings at other voltage connections.

J SERIES

Single-Phase Pump Motors

Single-phase pump motors with C-face and pump-flange mounting configurations.

PHASE	1Ø	ENCLOSURE	ODP / drip-proof
HP RANGE	1/3-3 HP	SPEED	3450 rpm
VOLTAGE	115/208-230 V	FRAME	56C / 56J
APPLICATIONS	Centrifugal pumps, water systems, pump packages		

Model Ratings

Model	Phase	HP	Poles	RPM	Voltage	Frame	Service Factor	FLA
ZL-J1	1Ø	1/3	2	3450	115/208-230	56C/56J	1.00	3.2
ZL-J2	1Ø	1/3	2	3450	115/208-230	56C/56J	1.15	3.2
ZL-J3	1Ø	1/3	2	3450	115/208-230	56C/56J	1.75	3.2
ZL-J4	1Ø	1/2	2	3450	115/208-230	56C/56J	1.00	3.5
ZL-J5	1Ø	1/2	2	3450	115/208-230	56C/56J	1.15	3.5
ZL-J6	1Ø	1/2	2	3450	115/208-230	56C/56J	1.60	3.5
ZL-J7	1Ø	3/4	2	3450	115/208-230	56C/56J	1.00	5.1
ZL-J8	1Ø	3/4	2	3450	115/208-230	56C/56J	1.15	5.1
ZL-J9	1Ø	3/4	2	3450	115/208-230	56C/56J	1.50	5.1
ZL-J10	1Ø	1	2	3450	115/208-230	56C/56J	1.00	5.7
ZL-J11	1Ø	1	2	3450	115/208-230	56C/56J	1.15	5.7
ZL-J12	1Ø	1	2	3450	115/208-230	56C/56J	1.40	5.7
ZL-J13	1Ø	1-1/2	2	3450	115/208-230	56C/56J	1.00	6.7
ZL-J14	1Ø	1-1/2	2	3450	115/208-230	56C/56J	1.15	6.7
ZL-J15	1Ø	1-1/2	2	3450	115/208-230	56C/56J	1.30	6.7
ZL-J16	1Ø	2	2	3450	115/208-230	56C/56J	1.00	9.3
ZL-J17	1Ø	2	2	3450	115/208-230	56C/56J	1.15	9.3
ZL-J18	1Ø	2	2	3450	115/208-230	56C/56J	1.25	9.3
ZL-J19	1Ø	3	2	3450	115/208-230	56C/56J	1.00	12.8
ZL-J20	1Ø	3	2	3450	115/208-230	56C/56J	1.15	12.8

Note: Please note that motor dimensions and performance data may be subject to change without notice.

FLA = Full Load Amps. Values apply to the listed connection shown. Contact AEP for ratings at other voltage connections.

Motor Selection Support

AEP can help match motor phase, horsepower, speed, voltage, frame, enclosure, mounting, and application requirements. Provide the driven equipment, duty cycle, available power, mounting details, operating environment, and required shaft or flange configuration when requesting assistance.

Motor Customization

AEP supports application-specific and non-standard motor solutions for OEM requirements not shown in this catalog. In addition to complete motors, AEP can provide motor components and subassemblies, including stator assemblies and rotor assemblies. Contact AEP to discuss your application and customization requirements.

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Before purchase or installation, confirm current model availability, voltage connection, full-load current, service factor, overload protection, mounting, rotation, shaft dimensions, and application suitability with AEP.

