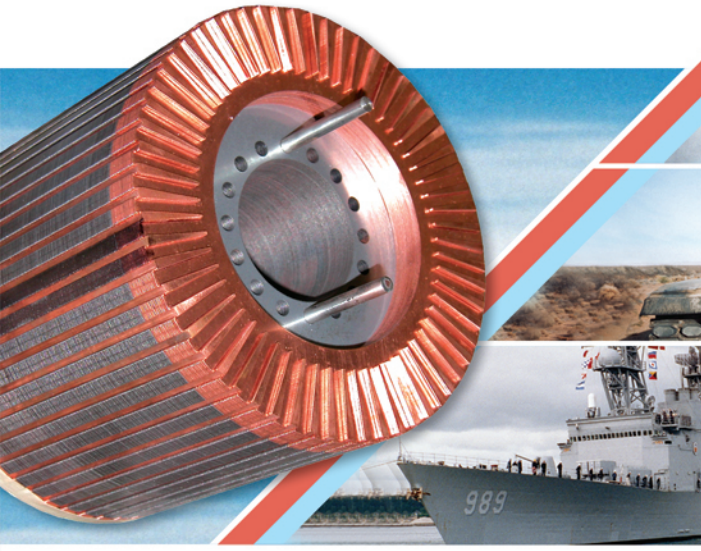
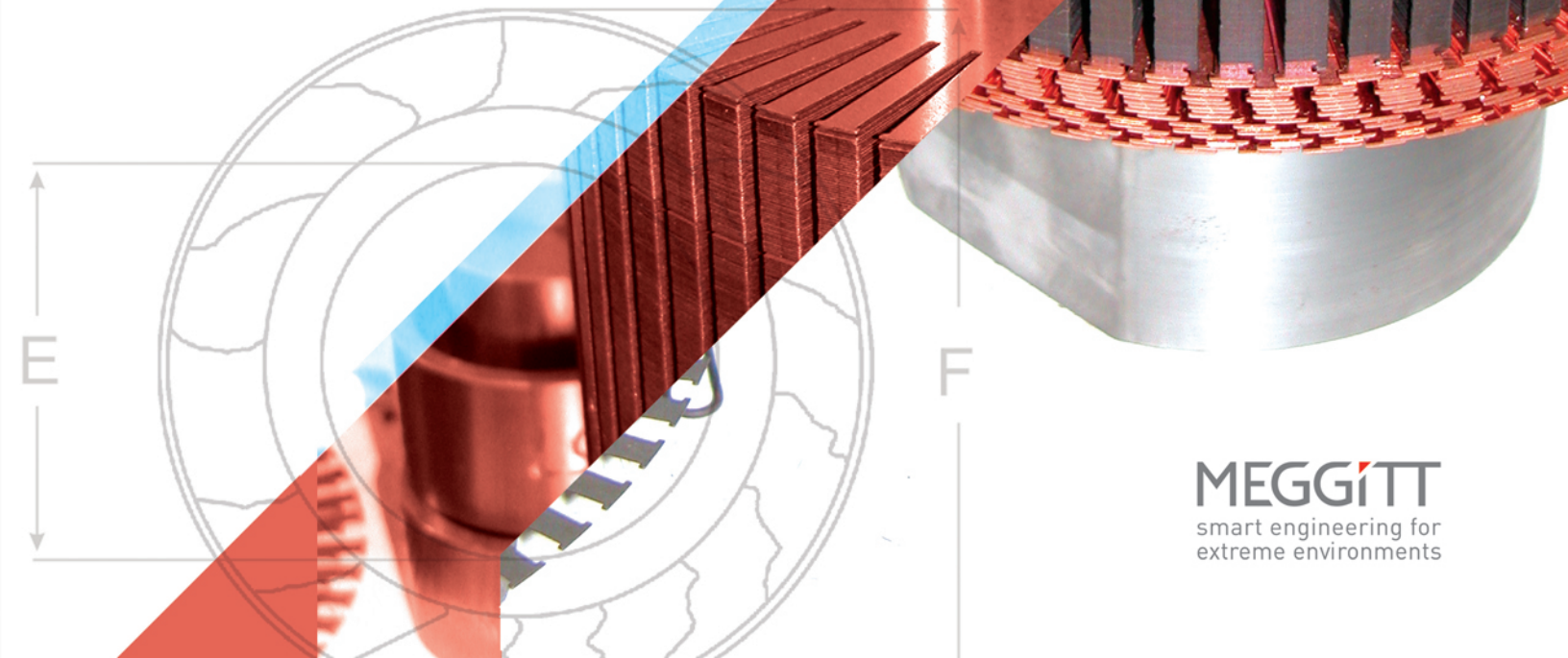
Meggitt Airdynamics

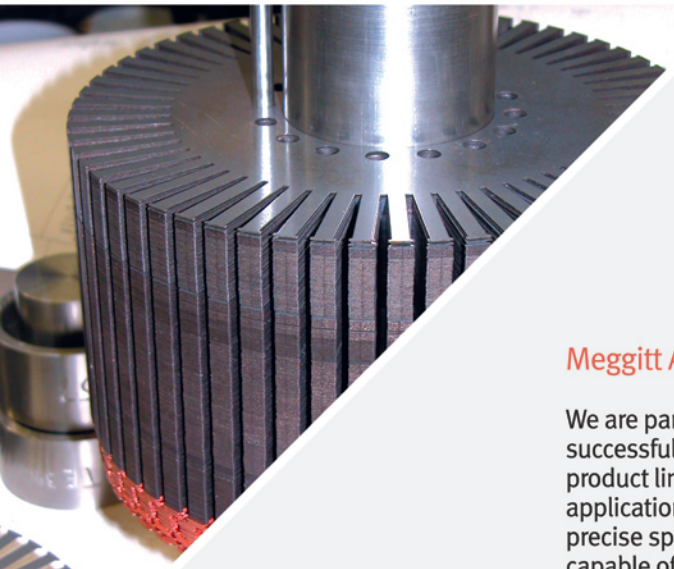
High performance motors

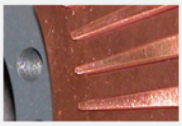


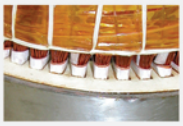


MEGGiTT
smart engineering for
extreme environments

Meggitt Airdynamics








Meggitt Airdynamics

We are part of a global organization dedicated to making our customers more successful in these competitive times. We have a comprehensive electric motor product line that allows you to select a motor precisely suited for individual applications. Our engineering resources are focused on designing motors to precise specifications. We have a flexible, responsive manufacturing operation, capable of delivering consistently high-quality products, in the quantities you specify, when you need them.

Our strategic intent is to be the leading supplier of high quality AC/DC motors, custom made for extreme environments in the aerospace and defense industries.

Quality by design

Meggitt Airdynamics' quality assurance department covers receiving inspection, functional testing, production return analysis and final inspection.

We are committed to continuous improvement and customer satisfaction.

The company has a strong inspection program, calibration control system, corrective action system and internal auditing program. A comprehensive statistical process control (SPC) program is also in place to respond to customers' requirements.

Our aftermarket support is dedicated to providing our customers with uncompromising service and support of all products.

270/600 VAC Stator

A tradition of excellence since 1969

Since Meggitt Airdynamics first designed and developed a DC motor, it has maintained a position of leadership in the industry. This has been accomplished through the continued development of innovative designs and the establishment of a worldwide reputation for outstanding product support to the customer. We continuously build on our technological and production experience to move the state of the art forward.

Quality by design

AC MOTORS

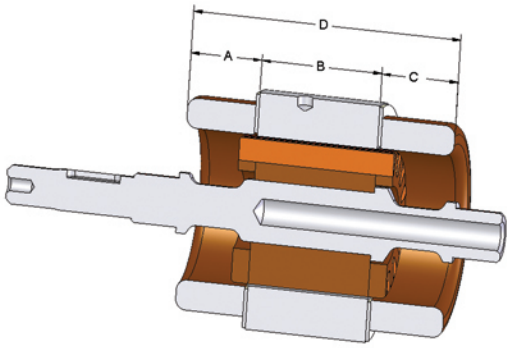
					DIMENSIONS					
Stator	Assy.	HP	RPM	Voltage	A	B	C	D	E	F
AC MOTORS / SORTED BY VOLTAGE										
40759-1	40750-1	0.11	11,600	200	0.80	1.51	0.70	3.01	1.35	2.24
40802-1	42910-1	0.14	11,800	200	0.80	1.00	0.90	2.70	2.02	3.10
41606-1	43360-1	0.25	3,800	200	0.80	1.51	0.70	3.01	1.25	2.24
46597-1	46590-1	0.46	23,600	200	0.55	1.00	0.95	2.50	1.25	2.24
40165-1	41040-3	0.60	11,500	200	0.55	0.75	0.60	1.90	1.25	2.24
41252-1	42870-1	0.60	23,200	200	1.00	1.30	0.75	3.05	2.00	3.10
41255-1	42870-2	0.60	23,200	200	1.00	1.60	0.77	3.37	2.00	3.10
42102-1	40190-4	0.60	23,000	200	0.90	4.00	0.80	5.70	2.75	3.80
42203-2	43370-1	0.60	22,000	200	1.00	1.00	0.80	2.80	1.25	2.24
48457-1	48210-1	0.67	11,600	200	0.73	1.63	0.68	2.04	1.46	2.04
48485-1	48250-1	0.67	23,000	200	0.50	0.80	0.45	1.75	1.11	1.53
41252-1	41740-1	0.70	7,800	200	1.00	1.38	0.75	3.12	2.00	3.11
40459-1	42960-1	0.80	23,500	200	0.65	1.00	0.65	2.30	1.00	3.10
40802-1	41330-1	0.80	23,500	200	0.80	1.40	0.90	3.10	2.00	3.10
42987-1	47220-1	0.80	11,400	200	0.55	1.10	0.65	2.30	1.40	2.28
46233-1	47220-2	0.80	11,400	200	0.70	1.16	0.65	2.45	1.44	2.28
41244-1	41620-3	1.00	18,000	200	1.15	2.25	0.75	4.15	2.75	4.00
40759-1	40330-2	1.10	22,000	200	1.00	2.25	0.73	3.10	2.00	3.60
42644-1	41790-1	1.30	11,400	200	0.80	1.10	0.70	2.50	2.76	4.00
48439-1	48260-1	1.34	11,600	200	0.73	1.15	0.68	2.56	1.46	2.04
41319-1	46200-1	1.50	11,500	200	0.78	1.10	0.70	2.48	1.25	2.48
42237-1	41340-1	1.50	11,500	200	0.80	1.50	0.75	2.95	1.25	1.96
42962-1	46200-2	1.50	11,500	200	0.78	1.10	0.70	1.50	1.25	2.24
42656-1	46220-1	1.60	11,400	200	0.80	2.10	0.70	3.60	5.00	5.90
48525-1	48240-1	1.88	11,600	200	0.67	1.50	0.53	2.70	1.79	2.36
40603-1	41610-1	2.00	11,500	200	0.85	0.75	0.70	2.35	2.00	3.11
41255-2	45350-1	2.00	11,500	200	1.00	1.63	0.77	3.40	2.05	3.11
41322-1	41620-3	2.30	11,500	200	0.85	1.10	0.70	2.65	2.00	3.10
41322-1	42610-1	3.50	5,820	200	0.85	1.10	0.70	2.65	2.00	3.10
48505-1	48270-1	3.55	11,600	200	0.97	1.50	0.80	3.27	2.00	2.75
42832-1	46730-1	4.20	11,500	200	0.55	1.00	0.66	2.21	1.30	2.24
48715-1	48710-1	4.70	11,600	200	1.01	2.37	0.87	4.34	2.12	3.37
41322-1	41620-1	6.36	11,500	200	0.85	1.10	0.70	2.65	2.00	3.10
41625-1	41180-1	6.70	3,750	200	0.80	2.10	0.70	3.60	5.00	5.99
47262-1	44040-1	10.60	11,500	200	0.80	2.50	0.75	4.05	2.75	4.60
45423-7	41250-1	0.25	11,650	208	0.80	1.15	0.60	3.15	3.07	4.30
41925-1	40420-1	0.30	6,000	208	0.80	1.00	0.75	2.50	2.00	3.11
47233-1	40160-2	0.37	11,200	208	0.80	1.00	0.65	2.45	1.44	2.28
42473-1	40440-1	1.20	12,000	208	0.70	1.63	0.60	2.55	2.00	3.11
47233-2	41750-2	1.25	11,750	208	0.80	0.86	0.65	2.31	1.44	2.28
40868-1	40450-1	1.40	11,900	208	1.10	1.62	0.75	3.47	2.00	3.11
45922-1	46240-1	1.85	11,300	208	0.70	1.25	0.60	2.55	2.00	3.39
41647-1	45410-1	2.80	7,800	208	0.70	1.25	0.60	2.55	2.00	3.39
40868-1	42250-1	0.14	11,800	440	1.10	1.60	0.75	3.45	2.05	3.11
41422-1	42440-1	7.00	7,800	440	1.10	0.63	0.75	2.37	1.74	3.00
41942-1	42260-1	12.50	7,600	440	0.85	0.87	0.75	2.47	2.00	3.10
48885-1	48870-1	52.00	8,000	440	1.70	5.00	1.90	8.65	7.00	10.25
48353-1	48310-2	66.00	9,000	440	2.18	5.75	2.09	10.02	5.22	7.90

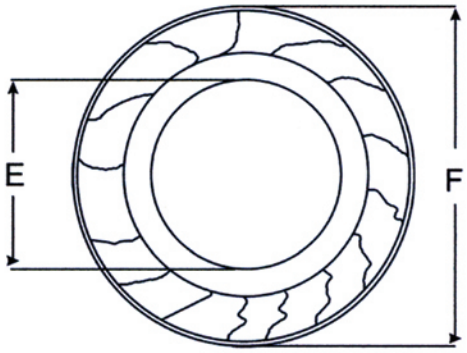
Rotor in stator

Practical innovation

DC MOTORS - inverter

					DIMENSIONS					
Stator	Assy.	HP	RPM	Voltage	A	B	C	D	E	F
DC INVERTER MOTORS										
40973-1	41630-1	0.40	11,500	18.5 VDC	1.20	1.50	0.85	3.10	2.00	4.11
48353-1	41580-1	0.40	11,500	18.5 VDC	2.18	5.75	2.09	10.02	5.11	7.20
42033-1	41560-1	0.75	11,400	18.5 VDC	0.90	3.00	0.80	4.70	3.60	5.90
44626-1	44660-1	0.80	18,000	18.5 VDC	1.00	2.03	0.87	4.00	2.19	3.38
41979-1	43720-1	1.10	12,650	18.5 VDC	0.95	4.02	0.80	5.75	3.60	5.75
43453-1	45010-1	0.70	1,000	28 VDC	0.85	1.75	1.25	3.85	2.00	3.40
43424-1	45000-1	0.80	5,600	28 VDC	0.80	1.30	0.60	2.70	2.00	3.11





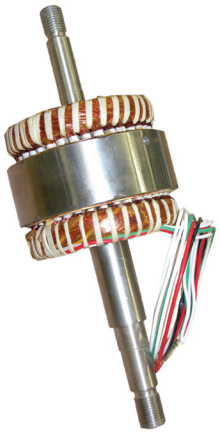
DC brush

					DIMENSIONS					
Stator	Assy.	HP	RPM	Voltage	A	B	C	D	E	F
DC BRUSH MOTORS										
43295-3	40650-1	0.80	3,540	24 VDC	0.75	1.88	0.87	3.47	1.30	2.50
40015-1	40010-2	0.20	17,200	27 VDC	1.30	6.00	1.00	8.30	1.40	2.50
40442-1	40220-2	0.70	9,200	27 VDC	0.61	3.10	0.40	4.11	1.80	2.75
42168-1	42160-1	0.80	8,000	27 VDC	0.70	3.38	0.70	4.77	2.39	3.30
41654-1	41930-1	6.70	14,700	28 VDC	0.70	2.00	0.60	3.30	1.25	2.25

270 / 600 VDC inverter

					DIMENSIONS					
Stator	Assy.	HP	RPM	Voltage	A	B	C	D	E	F
270 / 600 VDC INVERTER MOTORS										
48529-1	48530-1	3.30	11,400	270 VDC	1.10	1.87	0.85	3.73	2.10	3.10
48885-1	48870-1	52.00	8,000	600 VDC	1.70	5.00	1.90	8.65	7.00	10.25
48353-1	48310-2	66.00	9,000	600 VDC	2.18	5.75	2.09	10.02	5.22	7.90

Customer satisfaction



400 HZ part sets can be manufactured for very high speed operation. Typical usage is for military or aircraft applications, but when utilized with a variable frequency drive, it offers a significant operating speed range.

Traction drive systems

Features:

Custom-designed 200 to 600 VAC, 3 Phase, 400 Hz induction motors for aerospace and traction drive systems.

Many years of experience in designing and building AC induction motors.

Our high speed rotor technology, advanced heat transfer methods and high electromagnetic efficiency allows us to produce fractional motors for small pumps and fans up to vehicle traction motor with power ratings exceeding 1000 hp.

Motors are designed using proprietary motor software for high efficiency, high power factor, fractional to high power rating and high speed applications in an exceptional small package.

Motors are designed for long life and high reliability.

Designed to satisfy MIL-M-7969 and MIL-STD-704 requirements.

Designed to satisfy environmental operating conditions of MIL-STD-810 and RTCA/DO-160.

Motors can be configured for dry and wet application (pumps).

Motors can be supplied in framed or frameless configurations.

Class NEMA MW-1000 (220 ºC) magnet wire and class H insulation used for high temperature applications.

200/600 VAC stator

A tradition of excellent

Meggitt Airdynamics is a Meggitt group company.

Headquartered in the United Kingdom, Meggitt PLC is an international group operating in North America, Europe and Asia. Known for its specialized extreme environment engineering, Meggitt is a world leader in the aerospace, defense and electronics industries.

Meggitt Airdynamics

Meggitt Airdynamics
2616 Research Drive
Corona
California 92882
USA

Tel: +1 909 734 0070
Fax: +1 909 734 2594
E-mail: info@meggair.com

www.meggair.com
www.meggitt.com

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