

W IE4 Super Premium Efficiency Motors



Frame 280 to 355



W IE4 super premium efficiency motors

IE4

Performance data - cast iron frame

3000 min⁻¹ (2 pole)

Rated power	Full load speed in revolutions per minute	Frame reference and size	Full load current at rated voltage	Efficiency	Power factor	Full load torque	Direct on line starting torque ratio	Direct on line starting current ratio	Direct on line pull out torque ratio	Direct on line pull up torque ratio	Rotor inertia WK ²	Sound pressure level @ 1m on no load	Weight
P _N Kw (HP)	n min ⁻¹	Type	I _N 400V A	η 1.0P _N 0.75P _N 0.5P _N	Cos φ 1.0P _N 0.75P _N 0.5P _N	M _N Nm	$\frac{M_A}{M_N}$	$\frac{I_A}{I_N}$	$\frac{M_K}{M_N}$	$\frac{M_S}{M_N}$	J kgm ²	L _{PA} dB(A)	kg
90 (125)	2970	WSP-UDF280MVE IE4	151	$\left\{ \begin{array}{l} 95.8 \\ 95.6 \\ 94.7 \end{array} \right\}$	$\left\{ \begin{array}{l} 0.90 \\ 0.87 \\ 0.79 \end{array} \right\}$	290	2.7	9.8	3.4	2.4	0.90	77	700
110 (150)	2980	WSP-UDF315SNE IE4	182	$\left\{ \begin{array}{l} 96.0 \\ 95.8 \\ 94.7 \end{array} \right\}$	$\left\{ \begin{array}{l} 0.91 \\ 0.90 \\ 0.85 \end{array} \right\}$	353	2.0	8.1	2.9	1.8	1.60	78	850
132 (175)	2975	WSP-UDF315MN IE4	215	$\left\{ \begin{array}{l} 96.2 \\ 96.0 \\ 95.2 \end{array} \right\}$	$\left\{ \begin{array}{l} 0.92 \\ 0.91 \\ 0.86 \end{array} \right\}$	424	2.2	7.8	2.9	1.8	1.90	78	1050
160 (215)	2982	WSP-UDF315MR IE4	264	$\left\{ \begin{array}{l} 96.3 \\ 96.1 \\ 95.1 \end{array} \right\}$	$\left\{ \begin{array}{l} 0.91 \\ 0.89 \\ 0.84 \end{array} \right\}$	512	2.2	7.6	2.8	1.9	2.80	80	1200
185 (250)	2982	WSP-UDF315LR IE4	304	$\left\{ \begin{array}{l} 96.4 \\ 96.1 \\ 94.9 \end{array} \right\}$	$\left\{ \begin{array}{l} 0.91 \\ 0.88 \\ 0.82 \end{array} \right\}$	593	2.4	9.7	2.8	2.1	3.00	80	1350
200 (270)	2980	WSP-UDF315LR IE4	328	$\left\{ \begin{array}{l} 96.5 \\ 96.2 \\ 95.2 \end{array} \right\}$	$\left\{ \begin{array}{l} 0.91 \\ 0.90 \\ 0.86 \end{array} \right\}$	641	2.2	9.0	2.9	2.0	3.10	80	1540

Efficiency value acc. CDV IEC 60034-30-1 Ed.1



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IE4

Performance data - cast iron frame

1500 min⁻¹ (4 pole)

Rated power	Full load speed in revolutions per minute	Frame reference and size	Full load current at rated voltage	Efficiency	Power factor	Full load torque	Direct on line starting torque ratio	Direct on line starting current ratio	Direct on line pull out torque ratio	Direct on line pull up torque ratio	Rotor inertia V_k^2	Sound pressure level @ 1m on no load	Weight
P_N Kw (HP)	n min ⁻¹	Type	I_N 400V A	η $\frac{1.0P_N}{0.75P_N}$ $\frac{0.75P_N}{0.5P_N}$	$\cos \phi$ $\frac{1.0P_N}{0.75P_N}$ $\frac{0.75P_N}{0.5P_N}$	M_N Nm	$\frac{M_A}{M_N}$	$\frac{I_A}{I_N}$	$\frac{M_K}{M_N}$	$\frac{M_S}{M_N}$	J kgm ²	L_{PA} dB(A)	kg
90 (125)	1485	WSP-UDF280MN IE4	157	$\left\{ \begin{array}{l} 96.1 \\ 95.9 \\ 95.0 \end{array} \right\}$	$\left\{ \begin{array}{l} 0.86 \\ 0.82 \\ 0.73 \end{array} \right\}$	579	2.6	8.4	2.9	2.1	1.8	69	700
110 (150)	1485	WSP-UDF315SJ IE4	191	$\left\{ \begin{array}{l} 96.3 \\ 96.3 \\ 95.6 \end{array} \right\}$	$\left\{ \begin{array}{l} 0.86 \\ 0.83 \\ 0.75 \end{array} \right\}$	707	2.6	7.7	2.9	2.1	3.5	71	840
132 (175)	1490	WSP-UDF315MN IE4	220	$\left\{ \begin{array}{l} 96.4 \\ 96.4 \\ 95.5 \end{array} \right\}$	$\left\{ \begin{array}{l} 0.90 \\ 0.88 \\ 0.82 \end{array} \right\}$	846	2.3	7.5	2.6	2.0	4.0	71	1060
150 (200)	1490	WSP-UDF315MP IE4	252	$\left\{ \begin{array}{l} 96.6 \\ 96.4 \\ 95.6 \end{array} \right\}$	$\left\{ \begin{array}{l} 0.89 \\ 0.87 \\ 0.79 \end{array} \right\}$	961	2.4	7.8	2.9	2.1	4.9	73	1200
160 (215)	1490	WSP-UDF315MR IE4	266	$\left\{ \begin{array}{l} 96.6 \\ 96.4 \\ 95.6 \end{array} \right\}$	$\left\{ \begin{array}{l} 0.90 \\ 0.87 \\ 0.79 \end{array} \right\}$	1026	2.6	8.5	2.9	2.1	4.9	73	1200
185 (250)	1490	WSP-UDF315LP IE4	304	$\left\{ \begin{array}{l} 96.6 \\ 96.6 \\ 96.1 \end{array} \right\}$	$\left\{ \begin{array}{l} 0.91 \\ 0.89 \\ 0.84 \end{array} \right\}$	1186	2.2	7.5	2.5	1.9	5.8	73	1340
200 (270)	1490	WSP-UDF315LR IE4	328	$\left\{ \begin{array}{l} 96.7 \\ 96.8 \\ 96.5 \end{array} \right\}$	$\left\{ \begin{array}{l} 0.91 \\ 0.89 \\ 0.81 \end{array} \right\}$	1282	2.3	7.7	2.6	1.9	5.9	73	1350
225 (300)	1490	WSP-UDF355SJ IE4	328	$\left\{ \begin{array}{l} 96.7 \\ 96.4 \\ 95.6 \end{array} \right\}$	$\left\{ \begin{array}{l} 0.88 \\ 0.87 \\ 0.79 \end{array} \right\}$	1442	2.5	8.0	2.9	2.1	4.9	76	2000
250 (335)	1485	WSP-UDF355SN IE4	424	$\left\{ \begin{array}{l} 96.7 \\ 96.7 \\ 95.9 \end{array} \right\}$	$\left\{ \begin{array}{l} 0.88 \\ 0.86 \\ 0.80 \end{array} \right\}$	1608	2.1	7.2	2.5	1.7	10.6	76	2100
280 (375)	1490	WSP-UDF355SN IE4	475	$\left\{ \begin{array}{l} 96.7 \\ 96.7 \\ 95.9 \end{array} \right\}$	$\left\{ \begin{array}{l} 0.88 \\ 0.86 \\ 0.80 \end{array} \right\}$	1795	2.1	7.2	2.5	1.7	10.6	76	2100
315 (420)	1490	WP-UDF355MJ IE4	534	$\left\{ \begin{array}{l} 96.7 \\ 96.6 \\ 96.1 \end{array} \right\}$	$\left\{ \begin{array}{l} 0.88 \\ 0.87 \\ 0.81 \end{array} \right\}$	2019	2.1	7.2	2.5	1.7	11.9	79	2200

Efficiency value acc. CDV IEC 60034-30-1 Ed.1



Worldwide sales and service network

HEAD OFFICE AUSTRIA

ATB Austria Antriebstechnik AG
Donau-City-Straße 6/Top 15a
1220 Wien
T: +43 1 90 250 - 0
F: +43 1 90 250 - 110
info@atb-motors.com
www.atb-motors.com

AUSTRIA

ATB Motorenwerke GmbH
G.-Bauknecht-Str. 1
8724 Spielberg
T: +43 3577 757-323
F: +43 3577 757-182
info@atb-motors.com

CHINA

ATB Motors (Shanghai) Co., Ltd.
25F, NO. 66 North Shixi Road
200041 Shanghai
T: +86 150 522 638 10
dejong@atb-motors.com

SINGAPORE

Brook Crompton Asia Pacific Pte., Ltd.
141 Market Street,
07-01 International Factors Building
Singapore 048944
T: +65 6227 0308 126
F: +65 6227 0605
wegen@linjacob.com

BENELUX, FRANCE, SCHWITZERLAND

ATB BeneLux B.V.
Tasveld 14
8271 RW IJsselmuiden
T: +31 38 443 2110
F: +31 38 443 2111
verkoop@nl.atb-motors.com

GERMANY

ATB Antriebstechnik GmbH
Silcherstraße 74
73642 Welzheim
T: +49 7182 14-535
F: +49 7182 14 590
info@de.atb-motors.com

ATB Nordenham GmbH

Helgoländer Damm 75
26954 Nordenham
T: +49 4731 365-0
F: +49 4731 365-159
info@atb-nordenham.de

ATB Schorch GmbH

Breite Straße 131
41238 Mönchengladbach
T: +49 2166 925-0
T: +49 2166 925-100
mail@schorch.de

POLAND

Fabryka Silników Elektrycznych Tamel S.A.
ul. Elektryczna 6
33 100 Tarnow
T: +48 14 632 11 00
F: +48 14 632 11 02
office.tamel@tamel.pl

RUSSIA

ATB Rus LCC
Petrovka ul. 27
107031 Moscow
T: +7 495 740 87 46
F: +7 495 740 87 46
vyacheslav.mikheyev@ru.atb-motors.com

SERBIA

ATB Sever d.o.o.
Magnetna polja 6
24000 Subotica
T: +381 24 548 111
sever@rs.atb-motors.com

ATB FOD d.o.o.

Dorda Vajferta 16
19210 Bor
T: +381 30 423 147
fod@rs.atb-motors.com

GREAT BRITAIN & IRELAND

ATB Laurence Scott Ltd.
PO Box 25 Hardy Road, Norwich NR1 1JD
Norfolk
T: +44 1603 628 333
hvm.sales@laurence-scott.com

ATB Morley Ltd.

Ruskin Street
Stanningley, Leeds LS28 6QA
West Yorkshire
T: +44 113 257 1734
sales@uk.atb-motors.com

ATB Special Products Ltd.

Unit 11 Waterfall Lane Trading Estate
Cradley Heath, West Midlands
B64 6PU
T: +44 121 698 3100
F: +44 121 698 3160
spsales@atb-sp.com

Brook Crompton UK

St. Thomas Road, Huddersfield HD1 3LJ
West Yorkshire
T: +44 1484557200
F: +44 1484557201
csc@brookcrompton.com

USA & CANADA

Brook Crompton Ltd.
264 Attwell Drive
M9W 5B2 Toronto, Ontario
T: +1 416 675-3844
sales@brookcromptonna.com



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