

Technical data, 400 V 50 Hz

IE4 cast iron motors

IP 55 - IC 411 - Insulation class F, temperature rise class B
IE4 efficiency class according to IEC 60034-30-1; 2014

Output kW	Motor type	Product code	Speed r/min	Efficiency IEC 60034-30-1; 2014			Power factor Cosφ	Current		Torque		Moment of inertia J = 1/4 GD ² kgm ²	Weight kg	Sound pressure Level L _{PA} dB	
				Full load 100%	3/4 load 75%	1/2 load 50%		I _N A	I _s /I _N	T _N Nm	T _i /T _N				T _b /T _N
1500 r/min = 4 poles				400 V 50 Hz				B-design							
11	M3BP 160MLA 4	3GBP162410...M	1477	93.3	93.4	92.9	0.79	21.6	7.6	71.1	2.7	3.7	0.123	188	62
15	M3BP 160MLB 4	3GBP162420...M	1478	93.9	94.1	93.2	0.76	30.6	8.3	98.4	3.5	3.9	0.127	175	62
18.5	M3BP 180MLA 4	3GBP182410...M	1482	94.2	94.2	93.5	0.83	34.2	8.6	121	3.0	3.8	0.191	226	62
22	M3BP 180MLB 4	3GBP182420...M	1479	94.5	95.0	94.9	0.82	41	6.7	142	2.1	2.7	0.188	231.6	62
30	M3BP 200MLA 4	3GBP202410...M	1486	94.9	94.9	94.2	0.76	60.2	8.7	194	4.1	4.2	0.369	304	63
37	M3BP 225SMA 4	3GBP222210...M	1480	95.2	95.7	95.6	0.84	66.9	7.5	239	3.1	3.2	0.536	383	66
45	M3BP 225SMB 4	3GBP222220...M	1478	95.4	96.0	96.2	0.85	80.8	7.3	291	2.5	2.9	0.536	402.6	66
55	M3BP 250SMA 4	3GBP252210...M	1483	95.7	95.8	95.4	0.83	100	7.8	354	3.3	3.5	0.933	467	67
75	M3BP 280SMC 4	3GBP282230...M	1487	96.0	96.4	96.1	0.86	130	7.8	481	2.8	2.9	1.85	725	72
90	M3BP 280MLA 4	3GBP282410...M	1489	96.1	96.5	96.4	0.85	160	8.8	577	3.4	3.2	2.3	840	72
110	M3BP 315SMC 4	3GBP312230...M	1491	96.3	96.5	96.1	0.85	194	7.8	704	2.4	3.1	2.9	1000	68
132	M3BP 315SMD 4	3GBP312240...M	1490	96.4	96.6	96.2	0.85	234	7.9	846	2.6	3.2	3.2	1065	68
160	M3BP 315MLB 4	3GBP312420...M	1490	96.6	96.8	96.4	0.87	278	7.9	1026	2.7	3.0	3.9	1220	68
200	M3BP 315LKB 4	3GBP312820...M	1490	96.7	96.9	96.8	0.87	346	7.6	1282	2.5	2.9	5	1480	74
200	M3BP 355SMA 4	3GBP352210...M	1491	96.7	96.8	96.4	0.87	345	7.3	1282	2.1	2.7	5.9	1610	74
250	M3BP 315LKC 4	3GBP312830...M	1490	96.7	96.9	96.8	0.87	432	7.8	1601	2.3	3.0	5.5	1600	74
250	M3BP 355SMB 4	3GBP352220...M	1491	96.7	96.8	96.5	0.87	433	7.8	1601	2.5	2.9	6.9	1780	74
315	M3BP 355SMC 4	3GBP352230...M	1490	96.7	96.8	96.5	0.86	554	7.4	2017	2.8	2.9	7.2	1820	74
355	M3BP 355MLA 4	3GBP352410...M	1491	96.7	96.9	96.5	0.87	616	7.9	2274	2.7	2.9	8.4	2140	78
400	M3BP 355MLB 4	3GBP352420...M	1490	96.7	96.7	96.3	0.85	700	6.8	2563	2.1	2.8	8.4	2140	78
450	M3BP 355MLC 4	3GBP352430...M	1489	96.7	96.7	96.5	0.86	779	6.8	2886	2.4	2.8	8.4	2140	78
500	M3BP 355LKA 4	3GBP352810...M	1490	96.7	96.7	96.1	0.86	865	6.8	3204	2.0	3.0	10	2500	78
630	M3BP 400LB 4	3GBP402520...M	1491	96.7	96.7	96.2	0.86	1091	7.6	4034	2.2	2.9	16	3300	78
800	M3BP 450LA 4	3GBP452510...M	1491	96.7	96.7	96.2	0.86	1388	7.0	5121	1.3	2.8	23	4050	85
900	M3BP 450LB 4	3GBP452520...M	1491	96.7	96.5	96.0	0.85	1575	7.0	5761	1.3	2.8	25	4050	85

¹⁾ -3dB(A) sound pressure level reduction with unidirectional fan construction. Direction of rotation must be stated when ordering, see variant codes 044 and 045.

²⁾ Unidirectional fan construction as standard. Direction of rotation must be stated when ordering, see variant codes 044 and 045.

³⁾ Temperature rise class F

⁴⁾ Efficiency class 3

Output kW	Motor type	Product code	Speed r/min	Efficiency IEC 60034-30-1; 2014			Power factor Cosφ	Current		Torque		Moment of inertia J = 1/4 GD ² kgm ²	Weight kg	Sound pressure Level L _{PA} dB	
				Full load 100%	3/4 load 75%	1/2 load 50%		I _N A	I _s /I _N	T _N Nm	T _i /T _N				T _b /T _N
1500 r/min = 4 poles				400 V 50 Hz				F-design							
560	³⁾ M3BP 400LA 4	3GBP402510...M	1491	96.7	96.7	96.3	0.85	982	7.4	3586	2.4	2.8	15	3200	78
710	³⁾ M3BP 400LC 4	3GBP402530...M	1491	96.7	96.7	96.2	0.84	1227	7.6	4547	2.4	3.0	17	3300	78
1000	³⁾ M3BP 450LC 4	3GBP452530...M	1491	96.7	96.7	96.1	0.86	1724	6.8	6404	1.3	2.7	30	4350	85

¹⁾ -3dB(A) sound pressure level reduction with unidirectional fan construction. Direction of rotation must be stated when ordering, see variant codes 044 and 045.

²⁾ Unidirectional fan construction as standard. Direction of rotation must be stated when ordering, see variant codes 044 and 045.

³⁾ Temperature rise class F

⁴⁾ Efficiency class 3



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Technical Data - Fan Model AP0314AP10/34

Location:

Performance - Required

Air Flow : 0.47 m³/s
 Static Pressure : 100 Pa
 Selection Pressure: 100 Pa
 Installation Type: TYPE D
 Air Density: 1.204 kg/m³
 - Atmos. Temp: 20 °C
 - Altitude: 0 m
 - Humidity: 0.0 %

Fan Data

Catalogue Code: AP0314AP10/34 (AP0314AP10B003)
 Description: AP Series In-Line Direct Drive
 Diameter: 315 mm Hub: 150 mm
 Impeller Type: Axial Pitch: 34°
 Blade Material: GRP Blades: 10
 Speed: 1440 r/min @50 Hz
 Power, Abs: 0.12 kW Form: B
 Input Power: 0.20 kW Peak: 0.12 kW
 Efficiency Total: 47.9%
 Fan Weight: 22.3 kg Static: 39.4%

Motor Data (at STP)

Motor Type: Standard
 Electrical Supply: 415V 3ph 50Hz
 Motor Frame: D71
 Motor Power: 0.41kW (AOM) (0.37kW IEC)
 FLC/Start: 1.12A (AOM) / 5.20A (1.02A FL IEC)
 Motor Speed: 4 pole
 Motor Efficiency: 59.8%

Sound Data

Spectrum (Hz):	63	125	250	500	1K	2K	4K	8K	dBW	dB(A) @ 3m
Inlet (dB):	64	68	68	62	65	64	59	46	74	49
Outlet (dB):	68	68	71	63	65	64	61	54	75	50
Breakout (dB):	65	62	57	45	44	40	30	23	67	32

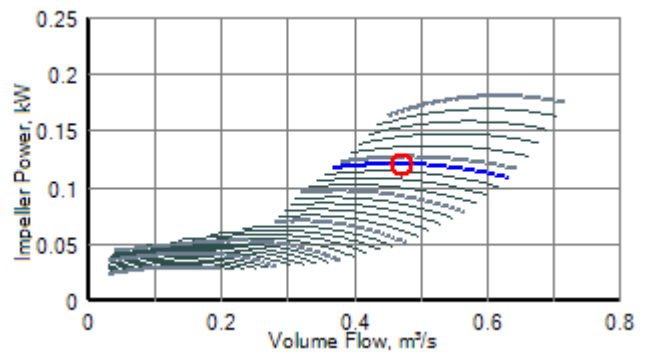
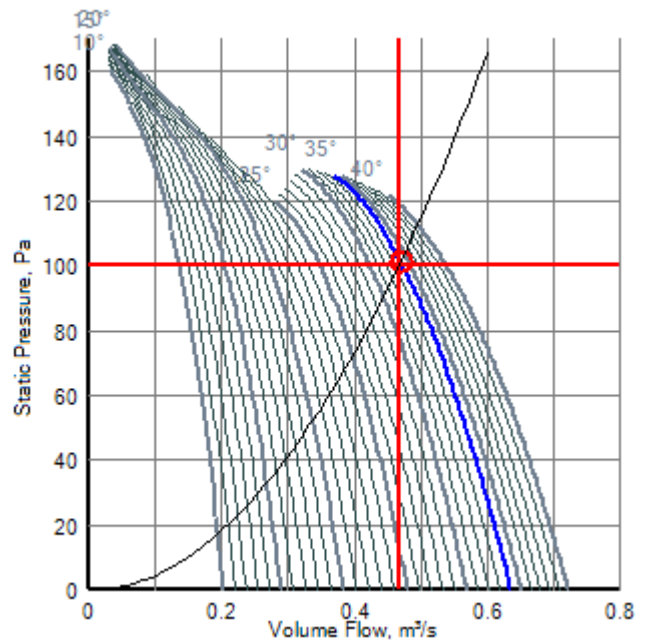
Sound levels are quoted as in-duct values. dB(A) values are average spherical free-field for comparative use only.

Fan Breakout Sound Power Levels exclude the breakout from any attached ductwork or flexible connections and are calculated from the Inlet and Outlet Sound Power Levels, considering the Sound Reduction Index of the Fan Casing.

Energy Sustainability Data

Hours Per Day:	10	Annual Electricity Cost (\$):	96.9
DaysPerYear:	300	Annual GH Gas (Tonnes):	0.9
CO2 per kWh (kg):	1.467	Annual Carbon Usage (Tonnes):	0.2
Cost per kWh (\$):	0.16		

Designation:



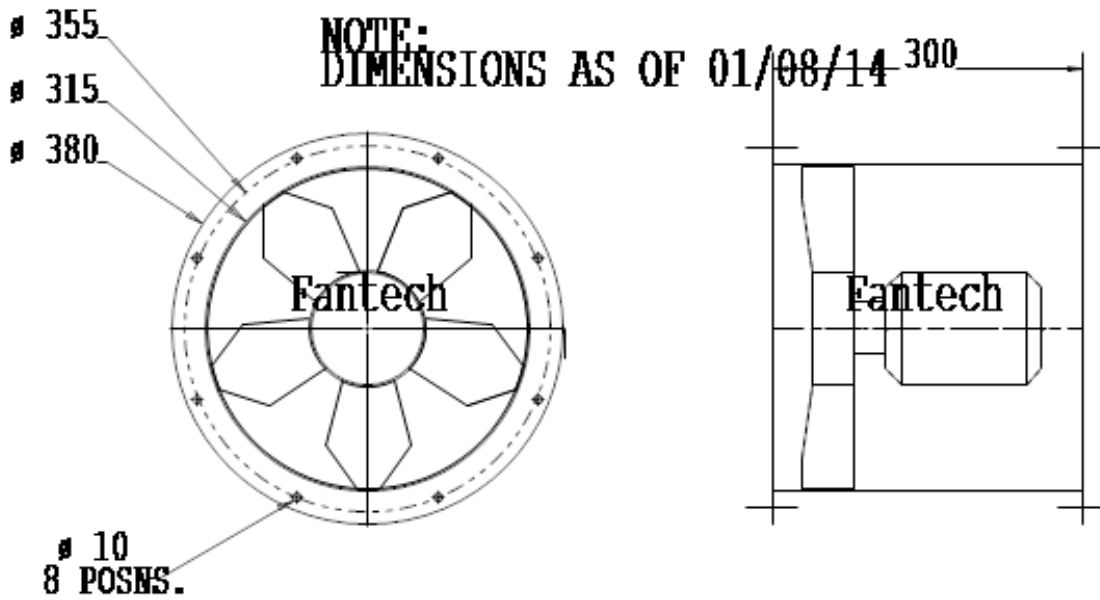


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Drawing for Fan Model AP0314AP10/34

Location:

Designation:





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Technical Data - Fan Model CPD0714/1R

Location:

Designation:

Performance - Required

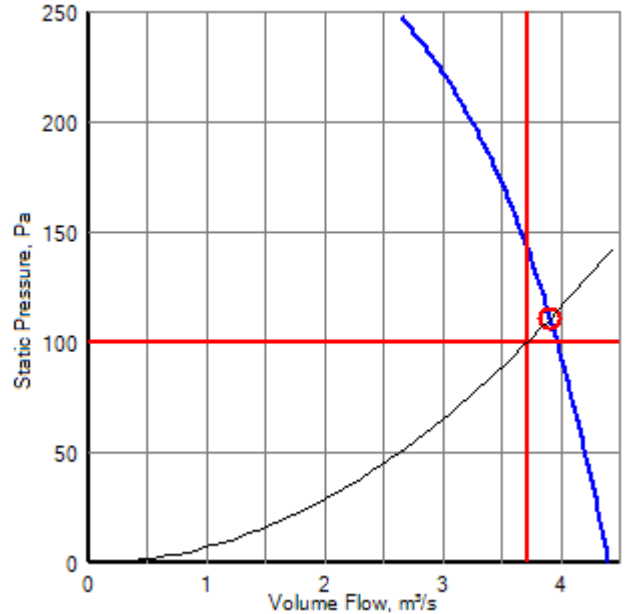
Air Flow : 3.71 m³/s
 Static Pressure : 100 Pa
 Selection Pressure: 100 Pa
 Installation Type: n/a
 Air Density: 1.204 kg/m³
 - Atmos. Temp: 20 °C
 - Altitude: 0 m
 - Humidity: 0.0 %

Actual

Air Flow: 3.91 m³/s
 Static Pressure: 111 Pa
 Total Pressure: 111 Pa

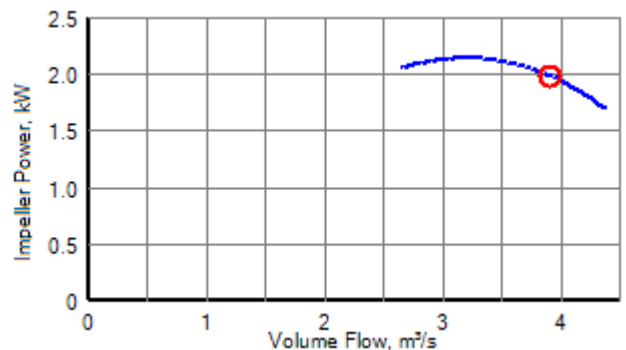
Fan Data

Catalogue Code:	CPD0714/1R		
Description:	Compact 2000 Series (Reverse		
Diameter:	710mm		
Impeller Type:	Axial		
Blade Material:	-		
Speed:	1440 r/min @50 Hz		
Power, Abs:	1.99 kW	Peak:	2.14 kW
Input Power:	2.26 kW	Static:	21.8%
Efficiency Total:	-		
Fan Weight:	61.0 kg		



Motor Data (at STP)

Motor Type:
 Electrical Supply: 415V 3ph 50Hz
 Motor Frame: D100L
 Motor Power: 2.20kW
 FLC/Start: 4.70A / 25.38A
 Motor Speed: 4 pole
 Motor Efficiency: 88.1%



Energy Efficiency, NCC/BCA Vol. 1, Section J compliant

+ 2006 - 2009, 2013 - 2016

Sound Data

Spectrum (Hz):	63	125	250	500	1K	2K	4K	8K	dBW	dB(A) @ 3m
Inlet (dB):	90	80	84	83	83	82	81	76	93	68

Sound levels are quoted as in-duct values. dB(A) values are average spherical free-field for comparative use only.

Energy Sustainability Data

Hours Per Day:	10	Annual Electricity Cost (\$):	1083.7
DaysPerYear:	300	Annual GH Gas (Tonnes):	9.9
CO2 per kWh (kg):	1.467	Annual Carbon Usage (Tonnes):	2.7
Cost per kWh (\$):	0.16		



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Drawing for Fan Model CPD0714/1R

Location:

Designation:

