

# Data sheet for three-phase Squirrel-Cage-Motors INNOMOTICS



Motor type : 1CV3164B

INNOMOTICS SD - 160 L - IM B35 - 4p

Client order no.	Item-No.	Offer no.
Order no.	Consignment no.	Project

Remarks

Safe Area

## Electrical data

-/-

U [V]	$\Delta / Y$	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	$\eta$ <sup>3)</sup>			$\cos\phi$ <sup>3)</sup>			$I_A/I_N$ $I_I/I_N$	$M_A/M_N$ $T_I/T_N$	$M_K/M_N$ $T_B/T_N$	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4				
<b>DOL duty (S1) - 155(F) to 130(B)</b>																	
230	$\Delta$	50	15.00	-/-	49.50	1465	98.0	92.1	92.7	92.0	0.83	0.78	0.67	7.9	2.8	3.4	IE3
400	Y	50	15.00	-/-	28.50	1465	98.0	92.1	92.7	92.0	0.83	0.78	0.67	7.9	2.8	3.4	IE3
460	Y	60	17.30	-/-	28.50	1765	94.0	92.4	92.5	92.0	0.83	0.79	0.69	7.9	2.7	3.3	IE2
460	Y	60	15.00	-/-	25.00	1775	81.0	93.0	92.9	92.1	0.81	0.75	0.64	8.9	3.1	3.8	IE3

IM B35 / IM 2001	FS 160 L	IP55	UKCA	IEC/EN 60034	IEC, DIN, ISO, VDE, EN
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Environmental conditions : -20 °C - +40 °C / 1000 m

Locked rotor time (hot / cold) : 24.6 s | 33.3 s

## Mechanical data



Sound level (SPL / SWL) at 50Hz 60Hz	58 / 66 dB(A) <sup>2) 3)</sup>	66 / 74 dB(A) <sup>2) 3)</sup>	Vibration severity grade	A
Moment of inertia	0.0890 kg m <sup>2</sup>		Thermal class	F
Bearing DE   NDE	6209 2Z C3	6209 2Z C3	Duty type	S1
<b>bearing lifetime</b>			Direction of rotation	bidirectional
$L_{10mh}$ $F_{Rad, min}$ for coupling operation 50 60Hz <sup>1)</sup>	40000 h	32000 h	Frame material	cast iron
Regreasing device	Without		Net weight of the motor (IM B3)	133 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Locating bearing NDE		Color, paint shade	RAL7030
Condensate drainage holes	With (standard)		Motor protection	(A) without (Standard)
External earthing terminal	Without		Method of cooling	IC411 - self ventilated, surface cooled

## Terminal box

Terminal box position	top	Max. cross-sectional area	16 mm <sup>2</sup>
Material of terminal box	cast iron	Cable diameter from ... to ...	19 mm - 28 mm
Type of terminal box	TB1 J01	Cable entry	2xM40x1,5
Contact screw thread	M5	Cable gland	2 plugs

$I_A/I_N$  = locked rotor current / current nominal  
 $M_A/M_N$  = locked rotor torque / torque nominal  
 $M_K/M_N$  = break down torque / nominal torque  
 1)  $L_{10mh}$  according to DIN ISO 281 10/2010  
 2) at rated power / at full load  
 3) Value is valid only for DOL operation with motor design IC411

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