

Welle - The versatile motor-mounted frequency converter

+ Compact

Welle is a self-ventilated frequency converter. Its compact dimensions and protection rating IP55 enable it to be mounted directly on the motor or on the wall.

+ Complete

It is available in the power range from 0.55 kW to 55 kW, even in the motor-mounted version.

+ Versatile

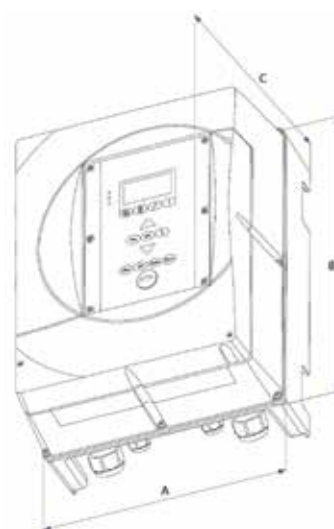
It controls both asynchronous motors and synchronous reluctance motors. It implements the patented “flying start” function for synchronous reluctance motors which is indispensable in ventilation applications.

It can be configured to suit various applications.

Technical data

Power range:	0.55 – 55 kW motor-mounted 0.55 – 55 kW wall-mounted	Configurable digital inputs:	6, of which 4 programmable
Motors controlled:	Asynchronous Synchronous reluctance	Programmable digital outputs:	2 relay contacts (110 V AC / 1 A)
Power supply:	Three-phase min. 380 V AC -15% max. 480V + 5%	PWM modulation frequency:	Range 1 - 8 kHz
Input frequency:	50 ÷ 60 Hz +/- 2%	Serial ports:	RS-232 ModBus (standard), RS-485 ModBus (optional)
Ingress protection rating:	IP55	Line choke:	integrated in all sizes
Efficiency:	97% with FPWM at 2KHz	Integrated filter:	in class B for power up to 7.5 kW in class A1 for higher powers
Analog control inputs:	0/10V		

Size	Power [kW]	Rated current [A]	Maximum current [A]	Dimensions [mm]		
				A	B	C
A	0,55	1,8	2	190	260	158
	0,75	2,5	3			
	1,1	3,5	4			
	1,5	4,8	5,5			
	2,2	6	7			
	3	8	9			
B	4	10	12	250	325	170
	5,5	13	15			
	7,5	16,5	18			
C	11	25	28	320	420	235
	15	31	34			
	18,5	39	44			
	22	45	50			
D	30	62	70	441	600	290
	37	75	85			
	45	90	100			
	55	108	120			



©KSB Aktiengesellschaft 2013 · Subject to technical modification without prior notice



REEL

REEL S.r.l A Socio Unico
Via Riviera Berica 40/42
36024 Ponte di Nanto (VI), Italy
www.reel.it

A KSB Company • **KSB**