

**CHAMPION****KBV22 - 10A**

TIS KBV22-10A/CE

Technical Information Sheet

[Hebei]

Regulated Speed, Air Cooled

[Eng. Vers.00]  
21.09.2017

Performance Data		KBV22 - 10 A						
Maximum working pressure	bar g	10,0						
Minimum working pressure	bar g	5,0						
Ambient temperature - min/max	°C	1 to 45						
		min. speed	speed 1	speed 2	speed 3	speed 4	max. speed	
5 bar	FAD* (Male rotor speed - rpm)	m <sup>3</sup> /min	<b>1,03</b> (1623)	<b>1,45</b> (2232)	<b>1,87</b> (2842)	<b>2,30</b> (3451)	<b>2,72</b> (4061)	<b>3,14</b> (4670)
	Total input power* (P spec. - kW min/m <sup>3</sup> )	kW	6,70 (6,52)	9,34 (6,44)	11,98 (6,40)	14,63 (6,37)	17,27 (6,35)	19,91 (6,34)
6 bar	FAD*	m <sup>3</sup> /min	<b>1,01</b> (1623)	<b>1,43</b> (2232)	<b>1,86</b> (2842)	<b>2,28</b> (3451)	<b>2,71</b> (4061)	<b>3,13</b> (4670)
	Total input power*	kW	7,45 (7,38)	10,27 (7,16)	13,09 (7,04)	15,92 (6,97)	18,74 (6,92)	21,56 (6,88)
7 bar	FAD*	m <sup>3</sup> /min	<b>0,99</b> (1623)	<b>1,42</b> (2232)	<b>1,84</b> (2842)	<b>2,27</b> (3451)	<b>2,70</b> (4061)	<b>3,12</b> (4670)
	Total input power*	kW	8,20 (8,29)	11,11 (7,85)	14,02 (7,61)	16,94 (7,46)	19,85 (7,36)	22,76 (7,29)
7,5 bar	FAD*	m <sup>3</sup> /min	<b>0,98</b> (1623)	<b>1,41</b> (2232)	<b>1,83</b> (2842)	<b>2,26</b> (3451)	<b>2,69</b> (4061)	<b>3,12</b> (4670)
	Total input power*	kW	8,58 (8,77)	11,56 (8,22)	14,54 (7,93)	17,52 (7,75)	20,50 (7,62)	23,49 (7,53)
8 bar	FAD*	m <sup>3</sup> /min	<b>0,97</b> (1623)	<b>1,40</b> (2232)	<b>1,83</b> (2842)	<b>2,25</b> (3451)	<b>2,68</b> (4061)	<b>3,11</b> (4670)
	Total input power*	kW	8,97 (9,27)	12,02 (8,61)	15,06 (8,25)	18,11 (8,04)	21,16 (7,89)	24,21 (7,78)
9 bar	FAD*	m <sup>3</sup> /min	<b>0,94</b> (1623)	<b>1,37</b> (2232)	<b>1,81</b> (2842)	<b>2,24</b> (3451)	<b>2,67</b> (4061)	<b>3,10</b> (4670)
	Total input power*	kW	9,72 (10,30)	12,89 (9,38)	16,06 (8,89)	19,23 (8,60)	22,39 (8,39)	25,56 (8,25)
10 bar	FAD*	m <sup>3</sup> /min	<b>0,92</b> (1623)	<b>1,35</b> (2232)	<b>1,79</b> (2842)	<b>2,22</b> (3451)	<b>2,65</b> (4061)	<b>3,08</b> (4670)
	Total input power*	kW	10,47 (11,34)	13,81 (10,19)	17,15 (9,60)	20,50 (9,24)	23,84 (8,99)	27,18 (8,82)
Total input power at no load including fan		kW	2,3					
Male rotor speed		rpm	1623 to 4670					
Approx. discharge temperature of air above ambient (at max. power)		°C	17					
Free field noise level ** at 70% load / at 100% load		dB(A)	70 / 75					
Electrical Data								
Nominal motor rating		kW	22					
Nominal voltage [tolerance] (Frequency)			380V[+10% -5%]; 400V[±10%]; 460V[±10%] (50, 60Hz)					
Full load current max. at 380V / 400V / 460V		A	55 / 52 / 45					
Starting current (max. % of full load current)		%	100					
Standard drive motor detail (ECA Qualifying)			IP55, IE3					
Drive motor speed min./max.		rpm	1025 to 2950					
Fan motor rating		kW	-					
Suggested cable size at 380V / 400V / 460V (max.30°C / max. 50m / Copper)		mm <sup>2</sup>	4G16 / 4G16 / 4G10					
Suggested fuse rating at 380V / 400V / 460V ( type gG )		A	63 / 63 / 50					
Cooling Data								
Ventilating fan capacity		m <sup>3</sup> /min	47					
Heat rejected by ventilating fan (max. % of actual input power)		%	95					
Size of cooling air inlet aperture		mm	Ø 360					
Size of cooling air outlet aperture		mm	664 x 395					
Approx. cooling air temperature above ambient (at max. power)		°C	29					
Max. allowable pressure drop in duct at ambient 35°C / 45°C		Pa	30 / 20					
Weights, Dimensions and Capacities Data								
Compressor oil capacity		l	9,5					
Oil carry over		mg/m <sup>3</sup>	< 3					
Compressed air delivery connection (female screwed thread)			ISO 228-1 (DIN 259, BSPP)					
Weight		kg	386					
Package dimensions L x W x H		mm	859 x 689 x 1210					

\* Data measured and stated in accordance with ISO1217 4th Edition Annex C &amp; E and at the following conditions:

Air Intake Pressure: 1 bar a / 14.5 psia

Air Intake Temperature: 20°C / 68°F

Humidity: 0% (dry)

\*\* Measured in free field conditions in accordance with the ISO 2151, tolerance ± 3dB(A).

Champion's policy is one of continuous improvement and we therefore reserve the right to alter specifications without prior notice.