W22Xd Super Premium

Flameproof Induction Motors Ex d | Ex de



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W22Xd Super Premium

Introducing the world's most efficient flameproof induction motor range

As one of the world's largest manufacturer of electric motors, we're already working with IE4 standards as our benchmark.

Our W22Xd range offers the highest efficiency ratings available meeting the IE4 Efficiency Levels defined in draft IEC Standard 60034-30 Edition 2.

By choosing highly efficient electric motors you will increase productivity, improve reliability and reduce your carbon footprint with up to 40% less in energy consumption whilst making a significant reduction in the total cost of ownership (TCO).

In terms of energy efficiency, reliability and operational life, WEG motors, drives and gearboxes give you the reductions in energy usage and costs you need to stay ahead in a competitive world.

When it comes to Hazardous Areas,

We make it Safe!

Finally the two come together in a flameproof motor!

You don't just get flameproof protection, but money-saving efficiency, too!

Have in mind:

Even more impressive, is that they're currently the only flameproof induction motors available as rated IE4 for energy efficiency. Our new W22Xd Super Premium flameproof induction motors are Zone 1 and 2 compliant for use in hazardous areas and with Groups IIA, IIB and IIC for flammable gases.

Versions for Zone 21 and 22 for combustible dusts, fibers and flyings (IIIA, IIIB and IIIC) and underground coal mines susceptible to firedamp (Group I – Category M2) are also available.

We have many years of experience and expertise in the design and manufacturing of unique solutions for the most demanding applications including:

- Conveyor belts
- Cranes
- Machinery
- Pumps
- Fans
- Compressors
- ...

Assuring a safe and efficient operation on a wide variety of hazardous environments:

- Flour mills
- Sugar refining plants
- Chemical and Petrochemical plants
- Oil & Gas (exploration & production)
- Pipelines
- Offshore platforms and FPSO's
- Underground mines
- ····



Global Certifications

Standard Certifications

WEG flameproof motors comply with major standards worldwide and are designed, manufactured and certified according to:



Other Local Certifications

In addition to the major certifications worldwide WEG flameproof motors have local certifications available. See below some examples:



SONCAP NIGERIA

SASO

SAUDI ARABIA

Learn how you can reduce even more your operating costs!

Typically applications do not run at full load all the time. Installing a VFD can help you save money by controlling the speed of your process and adjusting it to the specific load at any time. This is specifically true for variable torque applications like pumps and fans.

INDIA

Outstanding Performance



The comparative chart above shows the efficiency comparison between the IE efficiency levels determined by the draft IEC Standard 60034-30 Edition 2 and the new W22Xd Super Premium line efficiency, for 4 pole machines. As motors usually run for thousands of hours every year, any gain in efficiency by replacing motors with higher efficiency versions, will translate into considerable savings which would pay for the investment in a few years and in some cases even months.

The W22Xd Super Premium design, which presents from 20 to 40% less losses in comparison to the conventional motors, provides

the world's most efficient flameproof induction motor range.

Because of this, the investment for the replacement of installed motors by the W22Xd Super Premium efficiency motors returns in very short periods of time, resulting not only on energy savings, but also on plant reliability and availability, since new motors count on factory warranty and will renew your plant, valorizing your capital.

The energy savings will be even greater if the old motor has been subject to repairs during its lifetime!

Calculate your savings



Anual Energy Savings kWh = Energy Savings kWh x Operating days x Operating hours

Anual Savings (\$) = Anual Energy Savings kWh x Energy Cost ----

\$

The **W22Xd Super Premium Efficiency** motors are generally matching standard IEC frame sizes, which means that you can replace an IE1, IE2 or IE3 motor with total reliability.

Basic features

- Rated Output: 3kW to 1000kW
- Frame sizes: 132S/M to 500K/H
- Number of poles: 2, 4, 6 and 8
- Voltage: 400V, 50Hz

Technical Data

	2 Pole		4 Pole		6 Pole			8 Pole		
Output (kW)	Frame Size	Efficiency at Full Load	Frame Size	Efficiency at Full Load	Frame Size	Efficiency at Full Load		Frame Size	Efficiency at Full Load	
3	-	-	-	-	132S/M	88,6		-	-	
4	-	-	-	-	132S/M	89,5		-	-	
5,5	132S/M	90,9	132S/M	91,9	160M/L	90,5		-	-	
7,5	132S/M	91,7	160M/L	92,6	160M/L	91,3		-	-	
11	160M/L	92,8	160M/L	93,3	180M/L	92,3		-	-	
15	160M/L	93,3	160M/L	93,9	180M/L	92,9		-	-	
18,5	180M/L	93,7	180M/L	94,2	200M/L	93,4		-	-	
22	180M/L	94,0	200M/L	94,5	200M/L	93,7		-	-	
30	200M/L	94,5	200M/L	94,9	225S/M	94,2		-	-	
37	200M/L	94,8	225S/M	95,2	250S/M	94,5		-	-	
45	225S/M	95,2	225S/M	95,4	280S/M	95,2		-	-	
55	250S/M	95,5	250S/M	95,7	280S/M	95,4		-	-	
75	280S/M	96,3	280S/M	96,2	315S/M	96,2		-	-	
90	280S/M	96,5	280S/M	96,4	315S/M	96,2		-	-	
110	315S/M	96,5	315S/M	96,8	315L	96,3		-	-	
132	315S/M	96,6	315S/M	96,9	315L	96,4		-	-	
160	315S/M	96,8	315L	96,9	315L	96,5		-	-	
200	315L	97,0	315L	97,0	355M/L	96,5		-	-	
250	315L	96,9	355M/L	97,0	355A/B	96,6		-	-	
280	355M/L	97,0	355M/L	97,0	355A/B	96,6		-	-	
315	355M/L	97,0	355M/L	97,0	355A/B	96,6		-	-	
355	355A/B	97,1	355A/B	97,0	400L/J	96,6		400L/J	96,3	
400	400L/J	97,1	400L/J	97,0	400L/J	96,6		400L/J	96,3	
450	400L/J	97,1	400L/J	97,0	400G	96,6		400L/J	96,5	
500	400L/J	97,3	400L/J	97,0	400G	96,6		400G	96,5	
560	400G	97,5	400L/J	97,1	400G	97,0		450K/H	96,3	
630	450K/H	97,6	400L/J	97,1	450K/H	96,9		450K/H	96,3	
710	450K/H	97,6	400G	97,0	450K/H	97,0		500K/H	97,0	
800	450K/H	97,6	450K/H	97,3	500K/H	97,2		500K/H	97,0	
900	500K/H	97,6	450K/H	97,3	500K/H	97,2		-	-	
1000	500K/H	97,6	450K/H	97,3	500K/H	97,2		-	-	





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The Quality Choice

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