

## INDAR IM Series

### Squirrel Cage and Slip Ring Motors

<b>INDAR IM Series</b>	
<b>Main features</b>	
Power	From 400 kW to 11,000 kW.
Speed	Up to 2,000 rpm.
Voltage	From 400 V to 15,000 V.
Temperature rise	F or B.
Insulation	Up to class H (180°C).
Operation	PWM or sinusoidal supply.
<b>Other features</b>	
Mounting	Horizontal and vertical.
Degree of protection	IP ≤ 67.
Method of cooling	IC-01, IC-11, IC-21, IC-31, IC-06, IC-16, IC-26, IC-36, IC-17, IC-27, IC-37, IC-81W, IC-86W, IC-611, IC-616, IC-661 and IC-666.
Type of bearings	Ball/Roller bearings or Sleeve bearings.
Ex - protection	No.

## INDAR SM Series

### Synchronous Motors

<b>INDAR SM Series</b>	
<b>Main features</b>	
Power	From 400 kW to 25,000 kW.
Excitation	Brushless or direct excitation (with brushes).
Speed	Up to 1,800 rpm (continuous duty).
Voltage	From 400 V to 15,000 V.
Temperature rise	F or B.
Insulation	Up to class H (180°C).
Operation	PWM or sinusoidal supply.
<b>Other features</b>	
Mounting	Only horizontal.
Degree of protection	Up to IP ≤ 56.
Method of cooling	IC-01, IC-11, IC-21, IC-31, IC-06, IC-16, IC-26, IC-36, IC-17, IC-27, IC-37, IC-81W, IC-86W, IC-611, IC-616, IC-661 and IC-666.
Type of bearings	Ball/Roller bearings or Sleeve bearings.
Ex - protection	No.

## INDAR DCM Series

### Direct Current Motors


<b>INDAR DCM Series</b>	
<b>Main features</b>	
Power	Up to 4,000 kW.
Number of poles	$2p \geq 4$ poles.
Voltage	Up to 1,000 V.
Temperature rise	F or B.
Insulation	Up to class H (180°C).
<b>Other features</b>	
Mounting	Horizontal and vertical.
Degree of protection	Up to IP ≤ 56.
Method of cooling	IC-06, IC-16, IC-26, IC-36, IC-17, IC-27, IC-37 and IC-86W.
Type of bearings	Ball/Roller bearings or Sleeve bearings.
Ex - protection	No.

**INDAR PMM Series**

**Permanent Magnet Motors**

<b>INDAR PMM Series</b>	
<b>Main features</b>	
Power	From 100 kW to 8,000kW.
Speed	From 50 rpm to 2,000 rpm.
Voltage	From 400 V to 3,300V.
Temperature rise	F or B.
Insulation	Up to class H (180°C).
Operation	PWM.
<b>Other features</b>	
Mounting	Horizontal and vertical.
Degree of protection	Up to IP-55.
Method of cooling	IC76W, IC71W, IC81W and IC86W.
Type of bearings	Ball/Roller bearings or Sleeve bearings.
Ex - protection	No.

<b>Main options</b>
Oil lubricating Systems, jacking Systems, RTDs, transformers,...

<b>Design, tests and tolerances</b>	
	Our machines are designed, manufactured and tested according to the criteria and norms of the International Electrotechnical Commission and are suited to the requirements of all the classification bodies
  