

**Specifications****DC integrated Machine - Order Code - 69032**

**Watts** : 375W,  
**Rating** : 0.5 HP,  
**Armature Voltage** : 180V,  
**Field Voltage** : 220V,  
**Speed** : 1500 RPM

This machine can run as DC Shunt – Series and Compound Motor as well as Generator with different voltage / power / RPM rating.

**DC Shunt Motor coupled with DC Shunt Generator - Order Code - 69034**

**Watts** : 0.3KW,  
**Rating** : 0.5 HP,  
**Armature Voltage** : 180V,  
**Field Voltage** : 220V,  
**Speed** : 1500 RPM

0.5 HP / 180 V Armature / 220 V Field / 1500 RPM DC Shunt Motor coupled with 0.3 KW / 220 V / 1500 RPM DC Shunt Generator with base and couplings.

**Single Phase squirrel Cage Induction Motor - Order Code - 69035**

**Watts** : 0.3KW,  
**Rating** : 1 HP,  
**Field Voltage** : 220V, 50Hz  
**Speed** : 1420 RPM

Capacitor start Induction run / 1 Ph. / 50 Hz. / sq. Cage Induction Motor with all terminals of windings and capacitor & switch brought out for various connections & Mechanical loading arrangement.

**3 Phase / AC squirrel Cage Induction Motor - Order Code - 69036**

**Watts** : 750W  
**Rating** : 1.0 HP  
**Voltage** : 415V  
**Speed** : 1420 RPM

750 W / 1.0 HP / 415 V / 1420 RPM / Star connected / 3 Phase / TEFC / IE 2 Cl. Efficiency / AC sq. Cage Induction Motor. Frame 80 With Mechanical loading arrangement. 750 W / 1.0 HP / 415 V / 1420 RPM / Star connected / TEFC / 3 Phase / AC sq. Cage Induction Motor Frame :

**DC Shunt wound Motor - Order Code - 69037**

**Rating** : 0.5 HP,  
**Armature Voltage** : 180V (2.6A)  
**Field Voltage** : 220V (0.3A)  
**Speed** : 1500 RPM

DC Shunt wound Motor with Mechanical loading arrangement having two no. linear scales for torque measurement.

Note: Specifications are subject to change.

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**Specifications****DC Series Motor - Order Code - 69038****Rating** : 1.0 HP**Voltage** : 180V**Speed** : 1500 RPM

DC Series Motor with Mechanical loading arrangement having two no. linear scales for torque measurement

**Induction motor coupled with Shunt DC Generator and Shunt DC motor****Order Code - 69039****Squirrel Cage Induction Motor****Type** : Salient Pole**Phase** : Three Phase AC**Rating** : 1 HP**Voltage rating** : 415 V**Speed** : 1440 (No Load)**Insulation** : Class 'B'**DC Shunt Motor****Type** : Shunt**Rating** : 1 HP**Voltage Rating** : 200V**Speed** : 1500 RPM (no load)**Insulation** : Class 'B'**Base & Couplings - Order Code - 69040A-69040C**

Base &amp; Couplings for

1. 1/2HP to connect 2 motors or 1 motor or 1 Generator
2. 1 HP to connect 2 motors or 1 motor or 1 Generator
3. 2 or 3 HP to connect 2 motors or 1 motor or 1 Generator

**Mechanical Loading Arrangement - Order Code - 69041**

Mechanical Loading Arrangement without Motor

**Rotor Resistance starter - Order Code - 69042**

Rotor Resistance starter for above motor consisting Resistance in rotor circuit operated in 3 step interlocked with DOL starter.

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## Specifications



**DOL Starter Single Phase - Order Code - 69043**  
For Above motors

**Automatic Star to Delta Starter Three Phase - Order Code - 69044**  
For Above motors



**DC Shunt Motor Coupled With 3 Phase Alternator - Order Code - 69045**  
**Rating** : 3 HP  
**Voltage** : 220V-180V / 415V  
**Speed** : 1500 RPM  
3 HP/180-220V/1500RPM/DC Shunt Motor Coupled With 2 KVA/415V/1500RPM/3 Phase Alternator



**Three Phase Synchronous Motor Coupled with DC Machine - Order Code - 69047**

**Three Phase Synchronous Motor**  
**Type** : Salient Pole  
**Rating** : 3 HP  
**Voltage rating** : 415V  $\pm$ 10%  
**Speed** : 1500 RPM  
**Insulation** : Class 'B'  
**Excitation Voltage** : 120V

**DC Machine (Acts as generator)**  
**Type** : Shunt  
**Rating** : 2 HP  
**Voltage Rating** : 200V  
**Speed** : 1500 RPM (no load)  
**Insulation** : Class 'B'



**DC Machine Coupled with Three Phase Synchronous Motor - Order Code - 69048**

**DC Machine (Acts as Prime Mover)**  
**Type** : Shunt  
**Rating** : 2 HP  
**Voltage Rating** : 220V  $\pm$ 10%  
**Speed** : 1500 RPM (no load)  
**Insulation** : Class 'B'

**Three Phase Synchronous Motor (As generator)**  
**Type** : Salient Pole  
**Rating** : 3 HP  
**Voltage rating** : 415V  $\pm$ 10%  
**Speed** : 1500 RPM  
**Insulation** : Class 'B'  
**Excitation Voltage** : 120V



**3 Phase / Sq. Cage Induction Motor With Dhalandar Winding - Order Code - 69049**

**Rating** : 0.5HP-1.0HP, **Voltage** : 415V 50Hz, **Speed** : 1440-2880 RPM  
0.5 HP – 1.0 HP / 415 V / 50 Hz. / 1440 – 2880 RPM / 3 Phase / Sq. cage Induction Motor with dhalandar winding for pole changing – 2 speed operation. Frame : 100.  
Squirrel Cage Induction Motor, Power Rated - 1 HP, Rated Voltage - 415V, RPM – 3000. Note - we Need open Winding connection to run motor on 1500 RPM as well as 3000 RPM

Note: Specifications are subject to change.

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## Specifications



### Three Phase Induction Motor Coupled with DC Machine -

**Order Code - 69050**

#### Three Phase Induction Motor

**Type :** Squirrel Cage  
**Rating :** 2 HP  
**Voltage rating :** 415V AC  
**Speed :** 1440 RPM (no load)  
**Insulation :** Class 'B'

#### DC Machine (Acts as generator)

**Type :** Compound  
**Rating :** 1 HP (also available with 2HP & 3HP)  
**Speed :** 1500 RPM (no load)  
**Insulation :** Class 'B'

Both the Machines are flexibly coupled and mounted on a 'C' Channel base



### DC Motor Coupled with DC Generator - Order Code - 69051

#### DC Motor (acts as prime mover)

**Type :** Shunt  
**Rating :** 1 HP  
**Voltage rating :** 200V  
**Speed :** 1500 RPM (no load)  
**Insulation :** Class 'B'

#### DC Generator

**Type :** Series  
**Rating :** 1 HP (also available with 2HP & 3HP)  
**Speed :** 1500 RPM (no load)  
**Insulation :** Class 'B'

Both the Machines are flexibly coupled and mounted on a 'C' Channel base



### DC Machine Coupled with DC Machine - Order Code - 69052

#### DC Machine (acts as prime mover)

**Type :** Compound  
**Rating :** 1 HP  
**Voltage rating :** 200V  
**Speed :** 1500 RPM  
**Insulation :** Class 'B'

#### DC Machine (Acts as generator)

**Type :** Compound  
**Rating :** 1 HP (also available with 2HP & 3HP)  
**Voltage Rating :** 200V  
**Speed :** 1500 RPM (no load)  
**Insulation :** Class 'B'



### DC Machine Coupled with DC Machine - Order Code - 69053

#### DC Machine (acts as prime mover)

**Type :** DC Series  
**Rating :** 2 HP  
**Voltage rating :** 220V  $\pm 10\%$   
**Speed :** 1500 RPM  $\pm 5\%$   
**Insulation :** Class 'B'

#### DC Machine (Acts as generator)

**Type :** DC Shunt  
**Rating :** 1 HP  
**Current :** 4.1A  
**Voltage Rating :** 180V  $\pm 10\%$   
**Speed :** 1500 RPM  $\pm 7.5\%$   
**Insulation :** Class 'B'

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