



PowerFlex 40 Parameter Additions

Reference

PowerFlex 40 *Quick Start*, Publication 22B-QS001... and

PowerFlex 40 *User Manual*, Publication 22B-UM001...

Both publications are supplied with the drive.

New Basic Program Group Parameter

P043 [Motor OL Ret]

Related Parameter(s): P033, A090

Enables/disables the Motor Overload Retention function. When Enabled, the value held in the motor overload counter is saved at power-down and restored at power-up. A change to this parameter setting resets the counter.

| | | |
|----------------|----------|----------------------|
| Options | 0 | “Disabled” (Default) |
|----------------|----------|----------------------|

| | | |
|--|----------|-----------|
| | 1 | “Enabled” |
|--|----------|-----------|

New Advanced Program Group Parameter

A163 [DB Threshold]

Related Parameter(s): P037, A080, A081, A082

Sets the DC bus Voltage Threshold for Dynamic Brake operation. If the DC bus voltage falls below the value set in this parameter, the Dynamic Brake will not turn on. Lower values will make the Dynamic Braking function more responsive but may result in nuisance Dynamic Brake activation.

| | | |
|---------------|----------|------------|
| Values | Default | 100.0% |
| | Min/Max: | 0.0/110.0% |
| | Display: | 0.0% |



ATTENTION: Equipment damage may result if this parameter is set a value that causes the dynamic braking resistor to dissipate excessive power. Parameter settings less than 100% should be carefully evaluated to ensure that the dynamic brake resistor's wattage rating is not exceeded. In general, values less than 90% are not needed. This parameter's setting is especially important if parameter A082 [DB Resistor Sel] is set to 2 “No Protection”.

New Option Added to Parameters A051-A054

A051-A054 [Digital InX Sel]

Options 27 "EM Brk Rlse" If EM brake function is enabled, this input releases the brake.



ATTENTION: If a hazard of injury due to movement of equipment or material exists, an auxiliary mechanical braking device must be used.

New Modbus Function Code

Function code 16 Decimal (10 Hexadecimal) added.

| Modbus Function Code (Decimal) | Command |
|--------------------------------|-----------------------------------|
| 03 | Read Holding Registers |
| 06 | Preset (Write) Single Register |
| 16 | Preset (Write) Multiple Registers |



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