

Power Circuit Breakers

Contact Opening and Closing Speeds

S290-05-3

Service Information

The tabulated values in Service Information S290-05-3 represent recommended ranges for opening and closing speeds of McGraw-Edison Company power circuit breakers. Contact speeds are measured in oil; values listed are in feet per second (ft/sec).

Contact Speed in Oil, Measured in Feet per Second

Breaker Type	Service Information	Opening Speed (ft/sec)		Closing Speed (ft/sec)	
		Minimum	Maximum	Minimum	Maximum
CF-37	S290-15-2	15.0	17.5	15.5	17.5
CF-40	S290-15-2	15.0	17.5	15.5	17.5
CF-48	S290-15-2	15.0	17.5	15.5	17.5
CF-56	S290-20-1	12.0	15.0	15.5	17.5
CF-56A	S290-21-1	13.5	15.5	16.5	17.5
CG-38	S290-15-5	13.5	15.5	16.0	17.0
CG-48	S290-15-5	13.5	15.5	16.0	17.0
CGH-50	S290-16-1	13.5	15.5	16.0	17.0
CH-60	S290-20-1	12.0	15.0	15.5	17.5
CH-60A	S290-21-1	13.5	15.0	16.5	17.5
AHE-48	S290-40-1	17.0	21.0	16.5	18.0
AHE-54	S290-40-1	17.0	21.0	16.5	18.0
AHF-48	S290-40-2	15.0	17.0	20.0	21.0
AHF-54	S290-40-2	15.0	17.0	20.0	21.0
AHJ-48	S290-30-2	15.0	17.0	13.0	14.5
AHJ-54	S290-30-1	15.0	17.5	18.0	22.0
AHJ-60	S290-30-1	15.0	17.5	20.0	22.0
ALP-54	S290-32-1	15.5	—	16.0	17.0
ALP-60	S290-32-1	15.5	—	16.0	17.0
AHP-60	S290-31-1	14.0	—	16.0	17.0
RHE-78	PTI-S-693-1	14.0	—	15.0	17.0
RHE-84	PTI-S-693-1	14.0	—	15.0	17.0
	S290-45-2	14.0	—	17.0	18.0
RHE-90	PTI-S-674-1	14.0	—	15.0	17.0
	S290-45-3	14.0	—	17.0	20.0
RHF-90	S290-46-1	14.0	—	22.5	23.5
RHF-84*	S290-46-2	14.0	—	18.0	20.0
RHF-90*	S290-46-2	14.0	—	21.0	22.5

* Low-profile breaker.

These instructions do not claim to cover all details or variations in the equipment, procedure, or process described, nor to provide directions for meeting every possible contingency during installation, operation, or maintenance. When additional information is desired to satisfy a problem not covered sufficiently for the user's purpose, please contact your McGraw-Edison Power Systems Division sales engineer.