

Engineering Standards	<i>GE Motors</i>	RDS 4.30
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## INDEX OF ROLLING ELEMENT BEARINGS

### I. GENERAL

- A. RDS 4.30 is an index of currently purchased rolling element bearings.
- B. The Product Line GES 2.4's contain standard bearing requirements.
- C. Table cells highlighted in grey designate either obsolete or contradictory information that requires drawing revision.
- D. Vendor grease in double shield bearings should be compatible with the grease provided in endshield cavity).
- E. Maximum allowed temperature for bearing and grease (in endshield cavity) is different. Temperature suitability for both bearing and grease (in endshield cavity) shall be higher than the estimated bearing temperature (Rise + Ambient) for a design provided in Bill of material.

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## II. C50KE20A1 - Deep Groove Ball Bearings - Single Row - Premium Class

Bearing Size	Drawing Number	Part #	Contaminant Protection	Vendor Grease	Temperature Stabilization	Tolerance Class	Internal Clearance	Cage Material	Common Nameplate Designation	ABMA Nameplate Designation
6205	235A2500AF	01	Single Shield	None	120°C	ABEC1	C3	Sheet Steel	6205ZC3	25BC02JP30
		05		None	150°C				6205ZC3S0	25BC02JP3026
	235A2500AC	01	Double Shield	D6A2C23	120°C	ABEC1	C3	Sheet Steel	62052ZC3	25BC02JPP30A
		03		D6A15D3	150°C				62052ZC3S0	25BC02JPP30A26
6206	235A2502AM	01	Single Shield	None	120°C	ABEC1	C3	Sheet Steel	6206ZC3	30BC02JP30
		05		None	150°C				6206ZC3S0	30BC02JP3026
	235A2502AF	01	Double Shield	D6A2C23	120°C	ABEC1	C3	Sheet Steel	62062ZC3	30BC02JPP30A
		03		D6A15D3	150°C				62062ZC3S0	30BC02JPP30A26
	235A2502BA	01	Double Seal	D6A2C14	120°C	ABEC1	C3	Sheet Steel	62062RS1C3	30BC02JGG30A
6207	235A2501AH	01	Single Shield	None	120°C	ABEC1	C3	Sheet Steel	6207ZC3	35BC02JP30
		06		None	150°C				6207ZC3S0	35BC02JP3026
	235A2501AD	01	Double Shield	D6A2C23	120°C	ABEC1	C3	Sheet Steel	62072ZC3	35BC02JPP30A
		04		D6A15D3	150°C				62072ZC3S0	35BC02JPP30A26
6208	235A2503AE	01	Single Shield	None	120°C	ABEC1	C3	Sheet Steel	6208ZC3	40BC02JP30
		03		None	150°C				6208ZC3S0	40BC02JP3026
	235A2503AA	01	Double Shield	D6A2C23	120°C	ABEC1	C3	Sheet Steel	62082ZC3	40BC02JPP30A
		04		D6A15A1	120°C				62082ZC3	40BC02JPP30A
		06		D6A15D3	150°C				62082ZC3S0	40BC02JPP30A26
6209	235A2507EE	01	Double Shield	D6A2C23	120°C	ABEC1	C3	Sheet Steel	62092ZC3	45BC02JPP30A
		02		D6A15D3	150°C				62092ZC3S0	45BC02JPP30A26

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## II. C50KE20A1 - Deep Groove Ball Bearings - Single Row - Premium Class (Continued)

Bearing Size	Drawing Number	Part #	Contaminant Protection	Vendor Grease	Temperature Stabilization	Tolerance Class	Internal Clearance	Cage Material	Common Nameplate Designation	ABMA Nameplate Designation	
6210	235A2508AD	01	Single Shield	None	120°C	ABEC1	C3	Sheet Steel	6210ZC3	50BC02JP30	
		02		None	150°C				6210ZC3S0	50BC02JP3026	
	235A2508AK	01	Double Shield	D6A2C23	120°C	ABEC1	C3	Sheet Steel	62102ZC3	50BC02JPP30A	
		03		D6A15D3	150°C				62102ZC3S0	50BC02JPP30A26	
		04		D6A15A1	120°C				62102ZC3	50BC02JPP30A	
	235A2508EX	01	Double Seal	D6A2C23	120°C	ABEC1	C3	Sheet Steel	62102RS1C3	50BC02JGG30A	
		02		D6A5	120°C				62102RS1C3	50BC02JGG30A	
		03		D6A2C23	150°C				62102RS1C3S0	50BC02JGG30A26	
		04		D6A15A1	120°C				62102RS1C3	50BC02JGG30A	
	6212	235A2509AN	01	Single Shield	None	120°C	ABEC1	C3	Sheet Steel	6212ZC3	60BC02JP30
		235A2509AG	01	Double Shield	D6A2C23	120°C	ABEC1	C3	Sheet Steel	62122ZC3	60BC02JPP30A
			02		D6A15A1	120°C				62122ZC3	60BC02JPP30A
03			D6A15D3		150°C	62122ZC3S0				60BC02JPP30A26	
6213	235A2517AC	01	Single Shield	None	120°C	ABEC1	C3	Sheet Steel	6213ZC3	65BC02JP30	
		03		None	150°C				6213ZC3S0	65BC02JP3026	
	235A2517AD	01	Double Shield	D6A2C23	120°C	ABEC1	C3	Sheet Steel	62132ZC3	65BC02JPP30A	
		02		D6A15D3	150°C				62132ZC3S0	65BC02JPP30A26	
	235A2517AA	01	Open	None	120°C	ABEC1	C3	Sheet Steel	6213C3	65BC02J30	
		02		None	150°C				6213C3S0	65BC02J3026	
6215	235A2513AC	01	Single Shield	None	120°C	ABEC1	C3	Sheet Steel	6215ZC3	75BC02JP30	
	235A2513AF	01	Double Shield	D6A2C23	120°C	ABEC1	C3	Sheet Steel	62152ZC3	75BC02JPP30A	
		02		D6A15D3	150°C				62152ZC3S0	75BC02JPP30A26	
6216	235A2518AN	01	Open	None	120°C	ABEC1	C3	Sheet Steel	6216C3	80BC02J30	
6217	235A2522AG	01	Double Shield	D6A15D3	150°C	ABEC1	C3	Sheet Steel	62172ZC3S0	85BC02JPP30A26	
6219	235A2525AA	01	Open	None	120°C	ABEC1	C3	Sheet Steel	6219C3	95BC02J30	
		02		None	150°C		C4		6219C3S0	95BC02J3026	
		03		None	120°C		C4		6219C4	95BC02J40	

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## II. C50KE20A1 - Deep Groove Ball Bearings - Single Row - Premium Class (Continued)

Bearing Size	Drawing Number	Part #	Contaminant Protection	Vendor Grease	Temperature Stabilization	Tolerance Class	Internal Clearance	Cage Material	Common Nameplate Designation	ABMA Nameplate Designation	
6307	235A2501AE	01	Single Shield	None	120°C	ABEC1	C3	Sheet Steel	6307ZC3	35BC03JP30	
		06		None	150°C				6307ZC3S0	35BC03JP3026	
6308	235A2503EA	01	Single Shield	D6A2C13	120°C	ABEC1	C3	Sheet Steel	6308ZC3	40BC03JP30A	
		04		D6A5	150°C				6308ZC3S0	40BC03JP30A26	
	235A2503AK	01	Double Shield	D6A2C23	120°C	ABEC1	C3	Sheet Steel	63082ZC3	40BC03JPP30A	
		03		D6A15D3	150°C				63082ZC3S0	40BC03JPP30A26	
6309	235A2507EB	01	Single Shield	None	120°C	ABEC1	C3	Sheet Steel	6309ZC3	45BC03JP30	
		04		None	150°C				6309ZC3S0	45BC03JP3026	
	235A2507AD	01	Double Shield	D6A2C23	120°C	ABEC1	C3	Sheet Steel	63092ZC3	45BC03JPP30A	
		03		D6A15D3	150°C				63092ZC3S0	45BC03JPP30A26	
6310	235A2508EC	01	Single Shield	None	120°C	ABEC1	C3	Sheet Steel	6310ZC3	50BC03JP30	
		02		None	150°C				6310ZC3S0	50BC03JP3026	
		14		None	200°C				6310ZC3S1	50BC03JP3028	
		15		None	250°C				6310ZC3S2	50BC03JP3029	
	235A2508EB	01	Double Shield	D6A2C23	120°C	ABEC1	C3	Sheet Steel	63102ZC3	50BC03JPP30A	
		03		D6A15D3	150°C				63102ZC3S0	50BC03JPP30A26	
	6311	235A2515AG	01	Single Shield	None	120°C	ABEC1	C3	Sheet Steel	6311ZC3	55BC03JP30
	6312	235A2509AS	01	Single Shield	None	120°C	ABEC1	C3	Sheet Steel	6312ZC3	60BC03JP30
02			None		150°C	6312ZC3S0				60BC03JP3026	
235A2509AD		01	Double Shield	D6A2C23	120°C	ABEC1	C3	Sheet Steel	63122ZC3	60BC03JPP30A	
		04		D6A15D3	150°C				63122ZC3S0	60BC03JPP30A26	
		06		D6A15A1	120°C				63122ZC3	60BC03JPP30A	
235A2509AP		01	Double Seal	D6A2C13	120°C	ABEC1	C3	Sheet Steel	63122RS1C3	60BC03JGG30A	
235A2509AR		01	Open	None	120°C	ABEC1	C3	Sheet Steel	6312C3	60BC03J30	
		02		None	150°C		C0 / CN		6312C3S0	60BC03J3026	
		04		None	120°C		6312CN		60BC03J00		
6314	235A2516AC	01	Single Shield	None	120°C	ABEC1	C3	Sheet Steel	6314ZC3	70BC03JP30	
		02		None	150°C				6414ZC3S0	70BC03JP3026	
	235A2516AF	01	Double Shield	D6A2C23	120°C	ABEC1	C3	Sheet Steel	63142ZC3	70BC03JPP30A	
		02		D6A15D3	150°C				63142ZC3S0	70BC03JPP30A26	
	235A2516AE	01	Double Seal	D6A2C13	120°C	ABEC1	C3	Sheet Steel	63142RS1C3	70BC03JGG30A	
	235A2516AA	01	Open	None	120°C	ABEC1	C3	Sheet Steel	6314C3	70BC03J30	
		02		None	150°C		C4		6314C3S0	70BC03J3026	
		07		None	120°C		6314C4		70BC03J40		

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		08		None	150°C				6314C4S0	70BC03J4026
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## II. C50KE20A1 - Deep Groove Ball Bearings - Single Row - Premium Class (Continued)

Bearin g Size	Drawing Number	Par t #	Contaminant Protection	Vendor Grease	Temperature Stabilization	Tolerance Class	Internal Clearance	Cage Material	Common Nameplate Designation	ABMA Nameplate Designation
6315	235A2513A G	01	Single Shield	None	120°C	ABEC1	C3	Sheet Steel	6315ZC3	75BC03JP30
		02		None	150°C				6315ZC3S0	75BC03JP3026
	235A2513AE	01	Double Shield	D6A2C23	120°C	ABEC1	C3	Sheet Steel	63152ZC3	75BC03JPP30A
		02		D6A15D3	150°C				63152ZC3S 0	75BC03JPP30A2 6
	235A2513A D	01	Open	None	120°C	ABEC1	C3	Sheet Steel	6315C3	75BC03J30
		02		None	150°C				6315C3S0	75BC03J3026
6316	235A2518A C	01	Single Shield	None	120°C	ABEC1	C3	Sheet Steel	6316ZC3	80BC03JP30
		03		None	150°C				6316ZC3S0	80BC03JP3026
	235A2518A B	01	Double Shield	D6A2C23	120°C	ABEC1	C3	Sheet Steel	63162ZC3	80BC03JPP30A
		02		D6A15D3	150°C				63162ZC3S 0	80BC03JPP30A2 6
	235A2518A A	01	Open	None	120°C	ABEC1	C3	Sheet Steel	6316C3	80BC03J30
		02		None	150°C				6316C3S0	80BC03J3026
		05		None	120°C		C0 / CN		6316CN	80BC03J00
	6318	235A2514A G	01	Single Shield	None	120°C	ABEC1	C3	Sheet Steel	6318ZC3
03			None		150°C	6318ZC3S0				90BC03JP3026
235A2514AF		01	Double Shield	D6A2C23	120°C	ABEC1	C3	Sheet Steel	63182ZC3	90BC03JPP30A
		02		D6A15D3	150°C				63182ZC3S 0	90BC03JPP30A2 6
235A2514A D		01	Double Seal	D6A2C14	120°C	ABEC1	C3	Sheet Steel	63182RS1C 3	90BC03JGG30A
235A2514A B		01	Open	None	120°C	ABEC1	C3	Sheet Steel	6318C3	90BC03J30
		02		None	150°C		C4		6318C3S0	90BC03J3026
		06		None	120°C				6318C4	90BC03J40
	07	None		150°C	C4		6318C4S0		90BC03J4026	
6320	235A2523AF	03	Single Shield	None	120°C	ABEC1	C3	Sheet Steel	6320ZC3	100BC03JP30
		04		None	150°C				6320ZC3S0	100BC03JP3026
	235A2523A H	02	Open	None	120°C	ABEC1	C3	Sheet Steel	6320C3	100BC03J30
6321	235A2549A A	01	Double Shield	D6A2C23	120°C	ABEC1	C3	Sheet Steel	63212ZC3	105BC03JPP30A
6324	235A2548B A	01	Single Shield	None	120°C	ABEC3	C3	Sheet Steel	6324ZC3P6	120BC03JP36

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III. **C50KE20B1 - Deep Groove Ball Bearings - Single Row - Premium Class**  
**[Hybrid Bearing - Ceramic Rolling Element]**

Bearing Size	Drawing Number	Part #	Contaminant Protection	Vendor Grease	Temperature Stabilization	Tolerance Class	Internal Clearance	Cage Material	Common Nameplate Designation	ABMA Nameplate Designation
6205	235A2500AH	01	Single Shield	None	120°C	ABEC1	C3	Sheet Steel	6205ZC3HC5	
6206	235A2502AE	01	Single Shield	None	120°C	ABEC1	C3	Sheet Steel	6206ZC3HC5	
6208	235A2503AS	01	Single Shield	None	120°C	ABEC1	C3	Sheet Steel	6208ZC3HC5	
6210	235A2508AD	06	Single Shield	None	120°C	ABEC1	C3	Sheet Steel	6210SFHYB#1	
6309	235A2507ET	01	Single Shield	None	120°C	ABEC1	C3	Sheet Steel	6309ZC3HC5	
6310	235A2508EY	03	Single Shield	None	120°C	ABEC1	C3	Sheet Steel	6310ZC3HC5	
6315	235A2513AE	03	Double Shield	D6A2C23	120°C	ABEC1	C3	Sheet Steel	6315SFFHYB#1	
6318	235A2514AW	04	Single Shield	None	120°C	ABEC1	C3	Sheet Steel	6318SFHYB#1	

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**IV. C50KE20C1 - Deep Groove Ball Bearings - Single Row - Premium Class**  
**[INSOCOAT Bearing - Ceramic Outer Ring Coating]**

Bearing Size	Drawing Number	Part #	Contaminant Protection	Vendor Grease	Temperature Stabilization	Tolerance Class	Internal Clearance	Cage Material	Common Nameplate Designation	ABMA Nameplate Designation
6210	235A2508AD	05	Single Shield	None	120°C	ABEC1	C3	Sheet Steel	6210ZC3VL0241	
6213	235A2517AC	06	Single Shield	None	120°C	ABEC1	C3	Sheet Steel	6213ZC3VL0241	
	235A2517AA	06	Open	None	120°C	ABEC1	C3	Sheet Steel	6213C3VL0241	
6312	235A2509BC	03	Single Shield	None	120°C	ABEC1	C3	Sheet Steel	6312ZC3VL0241	
	235A2509AR	05	Open	None	120°C	ABEC1	C3	Sheet Steel	6312C3VL0241	
6314	235A2516AL	03	Single Shield	None	120°C	ABEC1	C3	Sheet Steel	6314ZC3VL0241	
	235A2516AA	06	Open	None	120°C	ABEC1	C3	Sheet Steel	6314C3VL0241	
		09		None	120°C	ABEC1	C4	Sheet Steel	6314C4VL0241	
6315	235A2513AG	03	Single Shield	None	120°C	ABEC1	C3	Sheet Steel	6315ZC3VL0241	
	235A2513AD	03	Open	None	120°C	ABEC1	C3	Sheet Steel	6315C3VL0241	
6316	235A2518AS	03	Single Shield	None	120°C	ABEC1	C3	Sheet Steel	6316ZC3VL0241	
	235A2518AA	06	Open	None	120°C	ABEC1	C3	Sheet Steel	6316C3VL0241	
6318	235A2514AW	03	Single Shield	None	120°C	ABEC1	C3	Sheet Steel	6318ZC3VL0241	
	235A2514AB	05	Open	None	120°C	ABEC1	C3	Sheet Steel	6318C3VL0241	
6320	235A2523AF	05	Single Shield	None	120°C	ABEC1	C3	Sheet Steel	6320ZC3VL0241	
	235A2523AH	01	Open	None	120°C	ABEC1	C3	Sheet Steel	6320C3VL0241	

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## V. C50KE28A1 - Deep Groove Ball Bearings - Single Row - Standard Class

Bearing Size	Drawing Number	Part #	Contaminant Protection	Vendor Grease	Temperature Stabilization	Tolerance Class	Internal Clearance	Cage Material	Common Nameplate Designation	ABMA Nameplate Designation
6205	235A2600AA	01	Single Shield	None	120°C	ABEC1	C3	Sheet Steel	6205ZC3	25BC02JP30
		02	Double Shield	D6A2C23					62052ZC3	25BC02JPP30A
		03	Open	None					6205C3	25BC02J30
6206	235A2602AA	01	Single Shield	None	120°C	ABEC1	C3	Sheet Steel	6206ZC3	30BC02JP30
		02	Double Shield	D6A2C23					62062ZC3	30BC02JPP30A
		03	Open	None					6206C3	30BC02J30
6208	235A2603AA	01	Single Shield	None	120°C	ABEC1	C3	Sheet Steel	6208ZC3	40BC02JP30
		02	Double Shield	D6A2C23					62082ZC3	40BC02JPP30A
		03	Open	None					6208C3	40BC02J30
6210	235A2610AA	01	Single Shield	None	120°C	ABEC1	C3	Sheet Steel	6210ZC3	50BC02JP30
		02	Double Shield	D6A2C23					62102ZC3	50BC02JPP30A
		03	Open	None					6210C3	50BC02J30
6213	235A2617AA	01	Single Shield	None	120°C	ABEC1	C3	Sheet Steel	6213ZC3	65BC02JP30
		02	Double Shield	D6A2C23					62132ZC3	65BC02JPP30A
		03	Open	None					6213C3	65BC02J30
6307	235A2601AA	01	Single Shield	None	120°C	ABEC1	C3	Sheet Steel	6307ZC3	35BC03JP30
		02	Double Shield	D6A2C23					63072ZC3	35BC03JPP30A
		03	Open	None					6307C3	35BC03J30
6309	235A2607AA	01	Single Shield	None	120°C	ABEC1	C3	Sheet Steel	6309ZC3	45BC03JP30
		02	Double Shield	D6A2C23					63092ZC3	45BC03JPP30A
		03	Open	None					6309C3	45BC03J30
6310	235A2608AA	01	Single Shield	None	120°C	ABEC1	C3	Sheet Steel	6310ZC3	50BC03JP30
		02	Double Shield	D6A2C23					63102ZC3	50BC03JPP30A
		03	Open	None					6310C3	50BC03J30
6312	235A2609AA	01	Single Shield	None	120°C	ABEC1	C3	Sheet Steel	6312ZC3	60BC03JP30
		02	Double Shield	D6A2C23					63122ZC3	60BC03JPP30A
		03	Open	None					6312C3	60BC03J30
6314	235A2616AA	01	Single Shield	None	120°C	ABEC1	C3	Sheet Steel	6314ZC3	70BC03JP30
		02	Double Shield	D6A2C23					63142ZC3	70BC03JPP30A
		03	Open	None					6314C3	70BC03J30
6316	235A2618AA	01	Single Shield	None	120°C	ABEC1	C3	Sheet Steel	6316ZC3	80BC03JP30
		02	Double Shield	D6A2C23					63162ZC3	80BC03JPP30A
		03	Open	None					6316C3	80BC03J30
		04	Single Shield	None	150°C				6316ZC3S0	80BC03JP3026
6318	235A2614AA	01	Single Shield	None	120°C	ABEC1	C3	Sheet Steel	6318ZC3	90BC03JP30
		02	Double Shield	D6A2C23					63182ZC3	90BC03JPP30A
		03	Open	None					6318C3	90BC03J30
		04	Single Shield	None	150°C				6318ZC3S0	90BC03JP3026



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VI. **C50KE21RU - Cylindrical Roller Bearings - Single Row – Premium Class**  
**[Double Flanged Outer Ring, Non Flanged Inner Ring]**

Bearing Size	Drawing Number	Part #	Contaminant Protection	Vendor Grease	Temperature Stabilization	Tolerance Class	Internal Clearance	Cage Material	Common Nameplate Designation	ABMA Nameplate Designation
NU207	235A2520AA	01	Open	None	120°C	ABEC1	C0 / CN	Machined Brass	NU207M	35RU02M00
NU208	235A2527AB	01	Open	None	120°C	ABEC1	C3	Sheet Steel	NU208C3	40RU02J30
		02		None	150°C				NU208C3S0	40RU02J3026
NU210	235A2521AC	01	Open	None	150°C	ABEC1	C0 / CN	Machined Brass or Phenolic	NU210S0	50RU02M0026
		02					CNH		NU210CNHS0	50RU02M0026
NU212	235A2512AA	01	Open	None	120°C	ABEC1	C0 / CN	Machined Brass	NU212M	60RU02M00
NU213	235A2529AA	01	Open	None	150°C	ABEC1	C0 / CN	Polyimide and Machined Brass		
		02		None			C0 / CN	Machined Brass	NU213M	65RU02M00
		03		None			C0 / CN	Polyimide	NU213P	65RU02T00
NU214	235A2548CA	01	Open	None	120°C	ABEC1	CN	Sheet Steel	NU214J	70RU02J00
		02		None	150°C				NU214JS0	70RU020026
NU222	235A2530AA	01	Open	None	120°C	ABEC1	C0 / CN	Machined Brass and Phenolic		
NU224	235A2539AA	01	Open	None	120°C	ABEC1	C0 / CN	Machined Brass and Phenolic		
NU309	235A2527AA	01	Open	None	120°C	ABEC1	C0 / CN	Machined Brass	NU309M	45RU03M00
NU310	235A2527AC	01	Open	None	120°C	ABEC1	C3	Sheet Steel	NU310JC3	50RU03J30
NU310	235A2511AA	01	Open	None	120°C	ABEC1	C0 / CN	Machined Brass	NU310M	50RU03M00
NU312	235A2512AB	01	Open	None	120°C	ABEC1	C0 / CN	Machined Brass	NU312M	60RU03M00
		02			150°C				NU312MS0	60RU03M0026
NU314	235A2524AA	01	Open	None	120°C	ABEC1	C0 / CN	Machined Brass or Sheet Steel		
		02			150°C		C3			
		03			150°C		C3			

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VI. **C50KE21RU - Cylindrical Roller Bearings - Single Row – Premium Class (Continued)**  
**[Double Flanged Outer Ring, Non Flanged Inner Ring]**

Bearing Size	Drawing Number	Part #	Contaminant Protection	Vendor Grease	Temperature Stabilization	Tolerance Class	Internal Clearance	Cage Material	Common Nameplate Designation	ABMA Nameplate Designation
NU316	235A2526AA	01	Open	None	120°C	ABEC1	C0 / CN	Machined Brass and Phenolic		
NU318	235A2519AA	01	Open	None	120°C	ABEC1	C0 / CN	Machined Brass	NU318M	90RU03M00
		02			120°C		C0 / CN	Phenolic		
NU319	235A2525AB	01	Open	None	120°C	ABEC1	C0 / CN	Machined Brass and Phenolic		
NU320	235A2528AA	01	Open	None	120°C	ABEC1	C0 / CN	Machined Brass and Phenolic		
		02			150°C		C0 / CN			
NU324	235A2548AA	01	Open	None	120°C	ABEC3	C3	Machined Brass	NU324MC3	120RU03M36

Engineering Standards	GE Motors	RDS 4.30
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**VII. C50KE22BT - Angular Contact Ball Bearings - Single Row – Premium Class**  
**[40° Contact Angle]**

Bearing Size	Drawing Number	Part #	Contaminant Protection	Vendor Grease	Temperature Stabilization	Tolerance Class	Internal Clearance	Cage Material	Common Nameplate Designation	ABMA Nameplate Designation
7217	235A2522AC	01	Open	None	120°C	ABEC1	Universal, Normal	Machined Brass	7217BECBM	85BT02MD00
7219	235A2525AC	01	Open	None	120°C	ABEC1	Universal, Normal	Machined Brass	7219BECBM	95BT02MD00
7220	235A2523AD	01	Open	None	120°C	ABEC1	Universal, Normal	Machined Brass	7220BECBM	100BT02MD00
7222	235A2532AA	01	Open	None	120°C	ABEC1	Universal, Normal	Machined Brass	7222BECBM	110BT02MD00
9222 7222 7222	235A2532XA	G01	Open	None	120°C	ABEC1	Matched Set	Machined Brass		
	235A2532AB	01							QJ222N2MA	110BZ02MTT00
	235A2532AC	01							7222BECBM	110BT02MTT00
7224	235A2533AA	01	Open	None	120°C	ABEC1	Universal, Normal	Machined Brass	7224BECBM	120BT02MD00
7226	235A2531AA	01	Open	None	120°C	ABEC1	Universal, Normal	Machined Brass	7226BECBM	130BT02MD00
7228	235A2534AA	01	Open	None	120°C	ABEC1	Universal, Normal	Machined Brass	7228BECBM	140BT02MD00
7230	235A2535AA	01	Open	None	120°C	ABEC1	Universal, Normal	Machined Brass	7230BECBM	150BT02MD00
7307	235A2501AN	01	Open	None	120°C	ABEC1	Universal, Normal	Machined Brass?	7307BECBM	35BT03MD00
		02			150°C				7307BECBMS0	35BT03MD0026
7308	235A2503EJ	01	Open	None	120°C	ABEC1	Universal, Normal	Machined Brass?	7308BECBM	40BT03MD00
		02			150°C				7308BECBMS0	40BT03MD0026
7309	235A2507AC	01	Open	None	120°C	ABEC1	Universal, Normal	Machined Brass?	7309BECBM	45BT03MD00
7310	235A2508ET	01	Open	None	120°C	ABEC1	Universal, Normal	Machined Brass or Steel	7310BECBM	50BT03MD00

Engineering Standards	GE Motors	RDS 4.30
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**VIII. C50KE23BJ - Angular Contact Ball Bearings - Double Row – Premium Class**  
**[Unsplit Inner Ring, 25-30° Contact Angle]**

Bearing Size	Drawing Number	Part #	Contaminant Protection	Vendor Grease	Temperature Stabilization	Tolerance Class	Internal Clearance	Cage Material	Common Nameplate Designation	ABMA Nameplate Designation
3210 / 5210	235A2508EK	01	Open	None	120°C	ABEC1	Axial, C3	Sheet Steel	3210AC3	50BJ32J30
3211 / 5211	235A2515AA	01	Open	None	120°C	ABEC1	Axial, C3	Sheet Steel	3211AC3	55BJ32J30
		02			150°C				3211AC3S0	55BJ32J3026
3212 / 5212	235A2509AB	01	Open	None	120°C	ABEC1	Axial, C3	Sheet Steel	3212AC3	60BJ32J30
3216 / 5216	235A2518AP	01	Open	None	120°C	ABEC1	Axial, C3	Sheet Steel	3216AC3	80BJ32J30
3217 / 5217	235A2522AD	01	Open	None	120°C	ABEC1	Axial, C3	Sheet Steel	3217AC3	85BJ32J30
3218 / 5218	235A2514AT	01	Open	None	120°C	ABEC1	Axial, C3	Sheet Steel	3218AC3	90BJ32J30

**IX. C50KE24 - Spherical Roller Thrust Bearings – Premium Class**

Bearing Size	Drawing Number	Part #	Contaminant Protection	Vendor Grease	Temperature Stabilization	Tolerance Class	Internal Clearance	Cage Material	Common Nameplate Designation	ABMA Nameplate Designation
29330	235A2535AB	01	Open	None	200°C	ABEC3	-	Sheet Steel	29330E	150TS93J
29334	235A2538AA	01	Open	None	200°C	ABEC1	-	Sheet Steel	29334E	170TS93J
29426	235A2536AA	01	Open	None	200°C	ABEC1	-	Sheet Steel	29426E	130TS94J
29430	235A2537AA	01	Open	None	200°C	ABEC1	-	Sheet Steel	29430E	150TS94J

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## X. Common Nameplate Designation

- A. The common nameplate designation rules are based on SKF's 2013 catalog. SKF designations were selected based on SKF's global presence and product availability.
- B. An exception is the MRC Hybrid Bearing; while supplied by SKF, it utilizes differing designations.

Designation:	Bearing Series	Bore Size	Design Detail	Contamination Protection	Internal Clearance	Cage Material	Special Feature
Example:	63	18	'blank'	2Z	C3	M	S0
Bearing Series	62 – Deep Groove Ball Bearing, Single Row, Light Series 63 – Deep Groove Ball Bearing, Single Row, Medium Series NU2 – Cylindrical Roller Bearing, Single Row, Light Series, Double Flanged Outer Ring, Non Flanged Inner Ring NU3 – Cylindrical Roller Bearing, Single Row, Medium Series, Double Flanged Outer Ring, Non Flanged Inner Ring 72 – Angular Contact Ball Bearing, Single Row, Light Series 73 – Angular Contact Ball Bearing, Single Row, Medium Series QJ2 – Four Point Contact Ball Bearing, Light Series (formally 92) 32 – Angular Contact Ball Bearing, Double Row, Light Series (formally 52) 33 – Angular Contact Ball Bearing, Double Row, Medium Series (formally 53) 293 – Spherical Roller Thrust Bearing, Light Series 294 – Spherical Roller Thrust Bearing, Medium Series						
Bore Size	Bore Size = Bearing Internal Diameter [mm] ÷ 5 Example, 6318: 18 = 90mm ÷ 5						
Design Detail	'blank' – No Design Detail Applies E – Optimized Internal Design (Series: 72, 73, 293, 294) B – 40° Contact Angle (Series: 72, 73) A – 30° Contact Angle, No Filling Slots (Series: 32, 33) S – MRC, Single Row Deep Groove						
Contamination Protection	Z – Single Shield 2Z – Double Shield F – MRC, Single Shield FF – MRC, Double Shield RS1 – Single Seal, Steel Reinforced Contact Seal of NBR (Acrylonitrile-Butadiene Rubber) 2RS1 – Double Seal, Steel Reinforced Contact Seal of NBR (Acrylonitrile-Butadiene Rubber)						
Internal Clearance	CN – Normal (normally omitted) CNH – Reduced clearance range corresponding to the upper half of the Normal clearance range C3 – Greater than Normal CB – Normal, Universal Matching (Series: 72, 73)						
Cage Material	J – Sheet Steel (often omitted) M – Machined Brass						
Special Feature	SN – 120°C Heat Stabilization S0 – 150°C Heat Stabilization S1 – 200°C Heat Stabilization VL0241 – SKF Insocoat, Aluminum Oxide Coated Outside Surface of Outer Ring HC5 – SKF Hybrid, Silicon Nitride Rolling Elements HYB – MRC Hybrid, Silicon Nitride Rolling Elements #1 – MRC, ABEC1						

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## **XI. ABMA Nameplate Designation**

- A. ABMA – the American Bearing Manufacturers Association (formerly known as AFBMA – the Anti-Friction Bearing Manufacturers Association) no longer supports the bearing numbering system in their standards. The numbering system was last known to be supported in ABMA 20 – 1996. The ABMA numbering system will remain in RDS 4.30 for historical purposes.
- B. The ABMA Nameplate Designation is a requirement of IEEE 841 – 2009.

Designation:	Bearing Bore	Bearing Type	Dimension Series	Modifications	Fit & Tolerance	Lubricant	Special Requirement
Example:	90	BC	03	JPP	30	A	26
Bearing Bore	Bearing Bore in millimeters. Example, 6318: 90mm						
Bearing Type	BC – Deep Groove Ball Bearing, Conrad Bearing (Series: 6XXX) RU – Cylindrical Roller Bearing, Double Flanged Outer Ring, Non Flanged Inner Ring (NUXXX) RN – Cylindrical Roller Bearing, Double Flanged Inner Ring, Non Flanged Outer Ring (NXXX) RJ – Cylindrical Roller Bearing, Double Flanged Outer Ring, Single Flanged Inner Ring (NJXXX) BT – Angular Contact Ball Bearing, Single Row, 40° Contact Angle (Series: 7XXX) BJ – Angular Contact Ball Bearing, Double Row, Non Filling Slot (Series: 3XXX, 5XXX) BZ – Four Point Contact Ball Bearing (Series: QJXXX, 9XXX) TS – Spherical Roller Thrust Bearing (Series: 2XXXX)						
Dimension Series	02 – Light Loads (Series: 62XX, NU2XX, 72XX, QJ2XX) 03 – Medium Loads (Series: 63XX, NU3XX, 73XX, QJ3XX) 32 – Light Loading (Series: 32XX, 52XX) 33 – Medium Loading (Series: 33XX, 53XX) 93 – Medium Loading (Series: 293XX) 94 – Heavy Loading (Series: 294XX)						
Spacer	X – (Optional) Separates the Basic Part Number and the Suffix						
Modifications	J – Pressed Sheet Steel, Centered by the Rolling Elements Y – Pressed Sheet Brass, Centered by the Rolling Elements M – Machined Brass, Centered by the Rolling Elements K – Machined Brass, Centered by One Race T – Non-Metallic (Phenolic, Polyamide 6.6), Centered by the Rolling Elements D – Non-Metallic (Phenolic, Polyamide 6.6), Centered by One Race						
	P – Shield, Single, Permanently Fastened (SKF Z) PP – Shield Double, Permanently Fastened (SKF 2Z) E – Seal, Single, Rubbing Seal of Synthetic Rubber or Polyurethane (SKF RS) EE – Seal, Double, Rubbing Seal of Synthetic Rubber or Polyurethane (SKF 2RS) G – Seal, Single, Contact Type, Synthetic Rubber, Sheet Steel Reinforcement (SKF RS1) GG – Seal, Double, Contact Type, Synthetic Rubber, Sheet Steel Reinforcement (SKF 2RS1) S – Seal, Single, Low Friction, Synthetic Rubber, Sheet Steel Reinforcement (SKF RZ) SS – Seal, Double, Low Friction, Synthetic Rubber, Sheet Steel Reinforcement (SKF 2RZ)						
	N – Snap Ring Groove in the Outer Ring, No Snap Ring G – Snap Ring Groove in the Outer Ring, with Snap Ring						
	D – Single Bearing, Universal Ground for Paired Mounting (SKF CB) RR – Matched Pair of Bearings for Back-to-Back Mounting (SKF DB) UU – Matched Pair of Bearings for Face-to-Face Mounting (SKF DF) TT – Matched Pair of Bearings for Tandem Mounting (SKF DT)						

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# XI. ABMA Nameplate Designation (Continued)

Designation:	Bearing Bore	Bearing Type	Dimension Series	Modifications	Fit & Tolerance	Lubricant	Special Requirement
Example:	90	BC	03	JPP	30	A	26
Fit & Tolerance	0 – Normal Internal Clearance (SKF CN) 2 – Smaller than Normal Internal Clearance (SKF C2) 3 – Greater than Normal Internal Clearance (SKF C3)						
	0 – ABEC1 Tolerance (SKF P0 or Normal) 6 – ABEC3 Tolerance (SKF P6) 5 – ABEC5 Tolerance (SKF P5)						
	7 – Angular Contact Ball Bearing, Single Row, Universal Matching, Light Preload (SKF GA) 8 – Angular Contact Ball Bearing, Single Row, Universal Matching, Moderate Preload (SKF GB) 9 – Angular Contact Ball Bearing, Single Row, Universal Matching, Heavy Preload (SKF GC)						
Lubricant	A – Specific Lubricant (designated on the bearing drawing)						
Special Requirement	26 – Temperature Stabilized for 150°C (SKF S0) 28 – Temperature Stabilized for 200°C (SKF S1) 29 – Temperature Stabilized for 250°C (SKF S2)						

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### Document Revision History

Rev #	Date	Author	ISAAC #	Description
0	1998/06/26	T. Neumann	98-S1038	Conversion from OfficeWriter to Word 97. See ECN or historical book to review changes.
1	1999/03/12	B. Elsworth	99-0141	Index of Approved Roller Bearings: Added "Nominal" to Width column heading. Put an underscore under "+" in Tolerance column. Added 324 frame.
2	1999/06/24	B. Elsworth	99-0513	Item II.E. is new.
3	1999/07/20	R. Martin	99-0094	Item II.A. Grease was Amoco Rykon Premium 2, GE Spec D6A2C14.
4	2000/07/31	S. Long	00-2010	Added new item II.F. and I. B. – Texaco Premium RB.
5	2000/09/19	A. Spenny	00-2620	Item II.F. Temperature range was -34°C to 163°C. Item II.G. is new. Grease Selection Double Shield or Double Sealed Bearing – removed Item 1.B. – Texaco Premium RB.
6	2001/05/11	R. Amstutz	01-1352	Added new table – SINGLE ROW, SINGLE SHIELD, ELECTRICALLY-INSULATED BEARINGS.
7	2002/08/08	R. Amstutz	02-2072	Added OPEN ELECTRICALLY INSULATED BEARINGS to the ball bearing section.
8	2002/09/25	L. Palacio	02-2436	Added PolyRex EM and Cyprina RA to the list of available greases. Added criterias to the grease selection list.
9	2008/12/16	R. Amstutz	N/A	Added various bearings.
10	2009/05/28	T. Perdue/ R. Amstutz	09-0404	Changed 130C to 120C, added 315 heat stabilized bearing, removed grease and created section 4.31 for grease.
11	2013/08/07	M. Pepple	NR	Corrected Section I. 6208 bearing drawing number from 235A2505AE to 235A2503AE.
12	2013/11/27	G. Ramy	13-0859	Complete spec revision.
13	2014/01/24	G. Ramy	14-0057	Adding two part numbers, 235A2618AA04 & 235A2614AA04.
14	2014/10/13	P. Sahu	14-0591	Revised grease for double shielded bearings in section I & II
15	2015/07/02	E. Dominguez	15-0682	Added roller bearing NU214.
16	2016/06/22	S. Long	1.6-0524	Added 235A2521AC02
17	2017/06/20	Karthik	17-0475	Added 6314 & 6318 C4 open bearing part numbers. (235A2516AA07,08,09 and 235A2514AB06,07)
18	2017/08/29	Sasidharan	17-0644	Added Part 235A2535AB (29330) bearing